Section i

Test and Measurement

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Voltage Indicators & Detectors

WARNING:

Do not take risks. Serious injury or death may result if not used correctly.
Non contact voltage detectors are only to be used by a competent person after reading appropriate instructions.

CAUTION:

Non contact voltage detectors must be proven on a known live source before and after testing.
An absence of detection does not mean the circuit under test is dead.

T7107A Voltage Detector

The T7107A AC Voltage Detector is ideal for electrical troubleshooting, detecting a live AC source & locating a burnt out bulb in a series circuit. A bright LED & buzzer alarm informs you that a voltage is present. Features an ergonomic pen shaped design for the ease of carrying & storage. The AC Voltage Detector also includes a Precision Screwdriver for replacing 2 x AAA batteries.

- Voltage Range 50V-1000V AC
- Frequency range 50Hz - 500Hz
- Contact free voltage testing
- Phase detection in sockets
- Rapid detection of cable breaks
- Bright LED
- Variable tone buzzer alarm
- No contact electrode

Compliance and Safety
IEC61010 CAT IV 1000V, UL,CE

C8902A Non Contact AC Voltage Detector (NCV)

The C8902A AC voltage detector is suitable for tracing live conductors and breaks in cable. It has an on/off switch and can be adjusted for sensitivity. The ability to adjust sensitivity is used when detecting polarity between Neutral and Active such as in socket outlets.

Features
- Sensitivity adjustment
- Auto Power Off
- Visual and audible indication
- Double moulded case

NEW

Feature	Range
AC Voltage	12 to 600 V AC 50 to 60 Hz

Compliance and Safety
IEC61010-1 CATIII 600V. C-tick

Ordering Information:
CABAC Part No. C8902A
Each unit hang cell blister with backing card, instructions and batteries.
Batteries: 2 x 1.5 AAA
Dimensions: 157(L) × 24(W) × 20(T) mm.
Weight 42g

T7108 Voltfinger AC Voltage and Magnetic Field Detector

The T7108 is a compact AC voltage detector that detects an electric field from 50V to 600V AC. Ideal for tracing conductors that are live and finding breaks in cable. It will detect magnetic fields in solenoids in relays, contactors, magnetic valves, etc.

- AC Voltage Detection
- Magnetic Field Detection
- Audible and Visual Indication
- Permanently On

Feature	Range
Voltage	50V to 600V AC @ 50Hz or 60 Hz
Operating Temperature	0 to 50° C
Humidity	Up To 85% RH

Compliance and Safety
IEC61010 CAT III 600V, CE

NOTE: Information regarding electrical field proximity testers, that is Voltfingers, or Proximity voltage detectors.

Voltage Indicators & Detectors

T7114 Voltfinger with Torch

The T7114 Voltfinger is used for detecting a voltage without contact.

- Has a light and audible sound to indicate voltage
- Includes On/Off switch
- Contact-free optical and acoustic indication of AC voltages between 50V and 600V
- Quick and accurate detection of cable breaks in open-ended cables, e.g. cable drums
- Phase detection in sockets
- No contact electrode
- Dimensions: L140 x H25 x W21mm
- Weight: Approx 50g
- Batteries: 2 x 1.5V AAA

Compliance and Safety
IEC61010 CAT III 600V, CE

T7150 Voltfinger

The T7150 Voltfinger has extra features like continuity and live line indication. A built-in torch and a high quality chrome vanadium molybdenum steel screwdriver tip that fits into Australian socket outlets. Indication of voltage or continuity is audible and visual.

Features

- Single Pole Test through Screwdriver
- AC Voltage 50-600V (optical and acoustical)
- Direct Contact and Non Contact Method Selectable
- Continuity Test from 0-3MΩ
- High Quality Screwdriver tip
- Quick and Accurate Detection of Cable Breaks
- Detect Presence of Voltage at Outlets, Lighting Fixtures, Circuit Breakers
- Super Flashlight via LED in Front Tip
- Glow Lamp in Back Cap
- Audible Alarm Warning when Voltage Present
- 3 Switchable Positions to Select Functions
- Batteries: 2 x 1.5V AAA

Feature	Range
Voltage	50V to 600V
Continuity	0 to 3MΩ
Frequency	50Hz to 500Hz

Compliance and Safety
IEC611010-1 CAT III 600V Pollution Degree 2

T7150

ACTEST3 Electrical Test Screwdrivers

ACTEST3 Test Screwdrivers are conventional neon light indicator lamp style test screwdrivers with GS/TUV and CE approvals, and they have insulated shafts.

Catalogue No.	Driver Tip Width	Length (mm)	Weight (g)
ACTEST3	3.5	190	27

WIBRETEST Vibrating Voltage and Line Tester

Features

- Large scale voltage indicator 110V to 750V DC on red scale and 125V to 750V AC on yellow scale
- Slip proof and oil resistant rubber grip, ribbed and padded for extra protection
- Robust contact pins designed to fit Australian and New Zealand plugs, and not break easily
- Pins are easily replaceable
- Unit is double insulated electrically and thermally
- Casing is made from unbreakable macrolon
- The probe pins are spring loaded for protection and easy measurement
- DC range shows polarity

Compliance and Safety
Safety: Meets IEC1010 CAT II for 1kVDC and AC IEEC61243-3 (CATIV 300V)
EMC: Meets EN55022, CE, C√

WIBRETEST

CAT IV 600V

LIFETIME OF PRODUCT WARRANTY*

BT69 - LED/LCD Voltage Tester Premium Range

AUTOMATIC DCV, ACV & CONTINUITY SELECTION
Shortens the time to test and increases the ease of use

AC DETECTION SHAKER
The shaker signal that significant ACV is being measured

AUTO HOLD
LED's flash for aprox. 10 seconds after probe is removed

AUDIBLE CONTINUITY
For quick open short tests on switches, fuses and wires

AUTO BACKLIT DIGITAL DISPLAY
For more precise indication & easy viewing in the dark

LEAKAGE LOAD FOR RCD
Internal leakage load provided typical leakage current 30mA at 230V

BI COLOUR LED HAZARDOUS LIVE WARNING
When input >70VDC / 33VAC, the green voltage LED's turn red

EF DETECTION
Both non-contact & single probe voltage detection for identifying live lines

CAT IV SAFETY
CAT IV 600V

FEATURE	RANGE	ACCURACY
Voltage AC/DC LED Indication	6,12,24,50,120,230,400,690,1000V	
Electric Field Detection	> 18V when touching conductor 50/60 Hz	
Continuity @ < 4.5VDC	Audible between 50kΩ & 2000kΩ	

Extra Ranges BT69 only

Feature	Threshold	Accuracy
DC 999V	> + or - 4.5VDc	1% + 2 digits
AC 999V	> 8 V AC	2.5% + 4 digits
RCD trip (PTC protected)	30 mA at 230 V AC	Path 7.7 kΩ nominal

*Refer to CABAC website cabac.com.au for terms and conditions on warranty.

ORDERING INFORMATION

Part No:

BT66 LED Version
BT69 LCD & LED Version

The units come in a gift box with lead, Ø4mm screw-on probe tips, batteries and instruction manual.

Batteries: 2 x 1.5V AAA or AA
Size: L233x W57 x T40mm
Weight: ±220g

Optional Accessories

3m long black lead: **AL01**

Standard black lead & red probe for BT69 & BT66: **BLRP**

Multimeters Selection Chart

SELECTION CHART

FEATURES	T7001	T7014	T8221D	T8221A	T8221C	TBM22	TBM27	C8265	T8268	C2836	T8229	TBM682	TBM685	BM251	TBM805	TBM807	BM821	BM822	BM827	BM525	BM869
Display	Analog	Analog	1999	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital
LCD counts			1999	1 999	1 999	4 000	6 000	1 999	3 999	3 999	3 999	6 000	6 000	6 000	4 000	4 000	10 000	11 000	12 000	13 000	50 000
LCD digits				3 1/2	3 1/2	3 3/4	3 5/6	4 1/2	3 3/4	3 1/2	3 3/4	3 5/6	3 5/6	5 5/6	3 3/4	3 3/4	3 5/6	3 5/6	3 5/6	3 5/6	5 4/5
Bargaph							✓							✓			✓	✓	✓	✓	✓
Battery Test	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Max AC Voltage	500	600	600	750	600	600	600	750	750	600	750	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Max DC Voltage	500	600	600	1000	600	600	600	1000	1000	600	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Max AC Current		10		10	10		2 mA	10	10	10	10			10	10	10	10	10	10	10	10
Max DC Current	250mA	10		10	10		2 mA	10	10	10	10			10	10	10	10	10	10	10	10
Fused Range		3		200mA	200mA			10	10	10	10			✓	✓	✓	✓	✓	✓	✓	✓
Max Resitance	500k	20M	20M	20M	20M	40M	6M	200m	200M	20M	40M	6M	6M	60M	40M	40M	60M	60M	60M	60M	50M
Continuity Beeper			✓	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
Diode Test	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
Autoranging			✓		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Frequency	1M	30k		30-1000	20k	100k	100K	20K								1M	1k	1k	1k	1k	200k
Capacitance µF		20			2000	3000	2000	2000	200		200		2000		3000	✓	25	25	25m	25m	25m
Temperature °C		-40° to 150 C			-20 to 1000														-50 to 998	-50 to 999	-50 to 1000
Min/Max Hold			max		max					max			✓		max	max			✓	✓	✓
Data Hold			✓	✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Crest or Peak Hold																			✓		✓
True RMS Measurement																✓		✓	✓	✓	✓
Back Light					✓			✓	✓	✓	✓					✓	✓	✓	✓	✓	✓
Splash & Dust Proof						✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Transient Proof	2.5kV	6kV	6kV	6kV	6kV	4kV	4kV	6KV	6kV	6kV	6kV	12kV	12kV	6kV	6kV	6kV	12kV	12kV	12kV	12kV	12kV
Relative Reference									✓		✓				✓	✓	✓	✓	✓	✓	✓
Holster	✓							✓	✓		✓			✓	✓	✓	✓	✓	✓	✓	✓
Auto Power Off			✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fire Retard Case						✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PC Comms.														USB			USB	USB	USB	USB	USB
Data logger																				✓	
Other Features			Compact pen type	hfe 1-1000	hfe 1-1001			hfe 1 to 1000, Incorrect Socket Alert	Incorrect Socket Alert	Phone line status, tone generator & receiver, Data Cable Check	Dual Display, RH%, Lux, dB, Incorrect Socket Alert	EF	EF	EF			Dual Display, BeepJack	Dual Display, BeepJack	Dual Display, BeepJack, EF, Logic Level Hz,	Dual Display, BeepJack, memory, EF	Dual Display, %4-20mA, dBm, VFD, BeepJack
CAT III	150V	600V	600V	600V	600V	300V	300V	600V	600V	600	600V	1000V	1000V	600V	600V	600V	>1000V	>1000V	>1000V	>1000V	>1000V
CATIV	100V	300V	300V	300V	300V	150V	150V	300V	300V	300	300V	1000V	1000V	300V	300V	300V	1000V	1000V	1000V	1000V	1000V
Warranty (years)	1	1	1	1	1	1	1	1	1	1	1	L.O.P.	L.O.P.	L.O.P.	1	1	L.O.P.	L.O.P.	L.O.P.	L.O.P.	L.O.P.

L.O.P. - Lifetime Of Product Warranty. Refer to CABAC website cabac.com.au for terms and conditions on warranty.

Pocket Multimeters

TBM22 & TBM27 Digital Multimeters Pocket Sized Standard & Deluxe

Two feature packed pocket meters for people who require a compact professional meter.

Features

TBM22 (Standard)	TBM27 (Deluxe)
3¾ Digit 4000 Count LCD	3⅝ digit 6000 Count LCD
Updates 3 x per second	Updates 5 x per second
Data Hold	Autocheck™
30ms high speed max hold	Electric Field Detection
Standard APO idle 30 min	Intelligent APO idle 3 min
Hi-Z DCV and ACV	Hi-Z DCV and ACV
Continuity and Diode Test	Continuity and Diode Test

Compliance and Safety

IEC61010-1 (1st Edition with amendment 1 & 2), UL61010B-1 (1st edition) CAT II 600V, CAT III 300V.
Transient Protection 4kV lightning surge.
Meets EN61326 (1997, 1998/A1), EN61000.

Feature	Range		Accuracy	
	TBM22	TBM27	TBM22	TBM27
DC Voltage	400mV	6V	1.0% +2d	0.5% +3d
	4, 40, 400V	60V	2.0% +2d	1.0% +5d
	600V	600V Autocheck	2.5% +4d	2.0% +4d
		600V Hi-Z		
AC Voltage	50-60Hz 4, 40,400V	50-60Hz 6, 60, 600	2.0% +5d	1.5% +5d
	60-500Hz 4, 40, 400V		3.0% +5d	
	50-500Hz 600V		3.5% +5d	
Resistance	400 Ω	600 Ω	1.5% +6d	2.0% +6d
	4k, 40k, 400kΩ	6 kΩ	1.0% +4d	1.2% +6d
	4 MΩ	60, 600 kΩ	1.5% +4d	1.0% +4d
	40 MΩ	600 MΩ	2.5% +4d	2.0% =4d
Diode Test	< 1.6VDC 0.25mA	< 2.6VDC 0.28mA		
Capacitance	500nF, 1000nF, 50µF	100nF, 1000nF, 10µF	3.5% +6d	3.5% +6D
	100µF, 2000µF	100µF, 2000µF		
Frequency	5Hz to 1000MHz	10Hz to 30kHz	0.5% +4d	0.5% +4d
DC Current		400mA		1.5% +3d
		2000mA		1.2% +3d
AC Current		50 to 60Hz		
		400mA		2.0% +3d
		2000mA		1.5% +3d
Electric Field TBM27 Only	15 to 55V –			
	30 to 85V – –			
	55 to 145V – – –			
	85 to 190V – – – –			
	120 + V – – – – –			
Consumption APO	1mA			
Power Consumption	2mA typical			
Low Battery	± 4.5V			
Operating Temperature	-10° to 50°C (accuracy specifications at 23°C ± 5°C & less than 75% RH)			

TBM22

TBM27

Ordering Information

TBM22 or TBM27

Each unit comes in an oyster pack with operating manual, batteries installed and protective holster.

Batteries: 1 x 3V CR2032

Size: L113 x W53 x T10.2mm

Weight: 78g

Optional Accessories

Soft Carry Pouch: TBMHC20

Analogue Multimeters

T7014 Analogue Multimeter Professional

A well priced, multi-featured analogue multimeter. Ideal for work in laboratories, training institutions, workshops, or whenever a clear analogue indication is required. Analogue meters give clear visual indication of pulses and electrical measurements. Analogue meters always give actual true RMS readings regardless of the waveform, thus saving on expensive digital true RMS meters. If you work with electronics this could be a well-priced solution for a top quality meter.

Features

- 8 Functions
- 20 Ranges
- 10 MΩ input impedance
- Fused Current Input
- Needle mirror for error of parallax
- Large, clear and colour coded screen
- Operating Temperature 0° to 40°C at RH < 80%
- Diode Test Current 1mA per ± 2.5 V (continuity buzzer)

Compliance and Safety

IEC 61010 CAT III 600V

Feature	Range	Accuracy
AC Volts	0.25/2.5/25/250/600V	± 4% f.s.
DC Volts	0.25/2.5/25/250/600V	± 3% f.s.
AC/DC Current	2.5/25/250/mA +10A	AC ± 4% f.s. DC ± 3% f.s.
Resistance	200Ω/2k/20k/200k/2M/20MΩ	± 3% f.s.
Capacitance	2/20/200nF/2/20mF	± 3% f.s
Frequency	0-20kHz	± 4% f.s.
Temperature	-40° to 150°C -40°F to 300°F	± 5% f.s.

Ordering Information

Part No: **T7014**

Unit is supplied with test leads, battery, manual, and temperature probe.

Battery: 9V 6F22

Fuses: 0.25A/250V 5 x 20mm and 10A/250V 6 x 25mm Fast Blow

Size: L180 x W91 x T48mm

Weight: 330g

For replacement test leads order AL04

T7001 Analogue Multimeter

CABAC's T7001 analogue multimeter is a useful compact test instrument for basic measuring for the handyman, or simple electrical work. It is small enough to fit into a pocket, and has leads permanently attached. The instrument comes in a shock proof case with full instructions and a 1.5V battery.

Features

- AC/DC voltage up to 500V
- DC current up to 250mA
- Resistance up to 500kΩ
- Mirror scale for accurate testing
- Overload protection 200mA fuse 250V
- Operating temperature 0° to 40°C at RH < 80%

Compliance and Safety

IEC1010-1 CAT II 300V, CE, C√

Feature	Range	Accuracy
AC Volts	10, 50, 500V	5%
DC Volts	2.5, 10, 50, 250, 500V	5%
Milli Amps	250, 10, 0.5mA	5%
Ohms	1K, 10KΩ	5%
Battery test	1.5, 9V	5%

Ordering Information

Part No: **T7001**

Battery: 1 x 1.5V AA

Size: L130 x W65 x T40mm in holster

Weight: 200g including battery

Digital Multimeters

T8211D Pen Type Meter

Features

- CAT III 600V
- Display: 1999 counts
- Auto/Manual Range
- Maximum Value Hold
- Data Hold
- Auto Power Off
- Resistance
- Continuity Test
- Diode Test
- Detecting AC Voltage of Special Frequency
- Sensitivity of AC Voltage Adjustable
- Sound and Flash Alarming

Feature	Range	Accuracy
DC Voltage	200m/2/20/200/600V	+/- 0.7%
AC Voltage	200m/2/20/200/600V	+/- 0.8%
Resistance	200/2k/20k/200k/2M/20M ohm +/-1.2%	±0.8%

Compliance and Safety

Safety: Meets IEC1010-1 CAT II for 1kVDC and AC EMC: Meets EN55022, CE, C√

Ordering Information

Part No T8211D

Accessories: Complete with carry pouch.
Batteries: 2 x 1.5V AAA
Size: L208 x W38 x T29mm
Weight: 110g

T8221A Digital Multimeter Manual Ranging

A compact, reliable digital multimeter with many useful features at a very reasonable cost. A meter with basic electrical functions such as 1000V DC and 750V AC. It is a manual select, compact DMM using the latest technology and includes features like resistance, diode test, current, continuity buzzer and transistor tester.

Features

- 3½ digit 1999 Count LCD
- Manual Ranging
- Data Hold
- Continuity Buzzer
- Updates 2-3 x per second
- Transistor Test hfe 0-1000
- Fused 250 mA Range
- Low Battery Indication

Compliance and Safety

IEC61010 CAT III 600V, CAT II 1000V, CE

Feature	Range	Accuracy
DC Voltage	200m/2/20/200V & 1000V	±0.5% & ±0.8%
AC Voltage	200m/2/20/200V & 750V	±0.8% & ± 1.2%
DC Current	200/2m/20mA	±0.8%
	200mA	±1.2%
	10A	±2%
AC Current	2m/20mA	±1.2%
	200mA	±1.8%
	10A	±3%
Resistance	200/2k/20k/200k/2MΩ	±0.8%
	20MΩ	±1%

Ordering Information

Part No: **T8221A**

The unit comes in a gift box with test leads and operating manual
Batteries: 3 x 1.5V AAA
Fuse: 200mA
Size: L158 x W74 x T31mm
Weight: 220g
For replacement test leads order AL04

Multifunction Digital Multimeters

T8221C Digital Multimeter Auto Ranging

A compact auto ranging digital multimeter with many useful features at a very reasonable cost. This meter has basic electrical functions such as 600V AC & DC, temperature, capacitance, diode test, resistance, current, continuity buzzer and transistor tester.

Features

- 3½ digit 1999 Count LCD
- Auto Ranging
- Max. Recording
- Data Hold
- Back Light
- APO
- Continuity Buzzer
- Updates 2-3 x per second
- Transistor Test hfe 0-1000
- Fused 250 mA Range
- Low Battery Indication

Compliance and Safety

IEC61010 CAT III 600V, CE

Feature	Range	Accuracy
DC Voltage	200m/2/20/200V & 600V	±0.7%
AC Voltage	200m/2/20/200V & 750V	±0.8%
DC Current	200µ/2000µ/2m/20/200mA	±1.2%
	2/10A	±2%
AC Current	200µ/2000µ/20m/200m	±1.5%
	2/10A	±3%
Resistance	200/2k/20k/200k/2MΩ	±1.2%
	20MΩ	±2%
Temperature	-20 to 1000 C; 0 to 1800 F	±3%
Capacitance	20n/200n/2/20/200/2000µF	±4%

Ordering Information

Part No: **T8221C**

The unit comes in a gift box with test leads, transistor adaptor and operating manual

Batteries: 3 x 1.5V AAA

Fuse: 200mA

Size: L158 x W74 x T31mm

Weight: 220g

For replacement test leads order AL04

C8265 Digital Multimeter Manual Ranging

This well priced manual ranging multimeter comes in an overmoulded durable case. The 19999 count display makes for high accuracy readings. It has a unique resettable fuse and audible and a visual warning for incorrect inserting of leads.

Features.

- 4 ½ auto range 19999 count LCD
- Sound and light warning for incorrect insertion of leads
- Resettable fuse
- Data hold
- Backlight
- APO
- Continuity buzzer
- Transistor test hfe 0-1000

Safety and Compliance

Conforms to IEC1010-1 standard CAT III 600V & CAT II 1000V, CE.

Feature	Range	Accuracy
DC Voltage	200m/2/20/200V & 1000V	±0.15 %
AC Voltage	2/20/200V & 750V	±0.8%
DC Current	2m/200mA	±0.8%
	10A	±2.0%
AC Current	2/200mA	±1.2%
	2/10A	±2.5%
Resistance	200/2k/20k/200k/2M	±0.5%
	200M	±0.5%
Frequency	20kHz ±1.5%	±3.0%
Capacitance	20n/200n2/20/200/2000F	±4.0%

Ordering Information:

CABAC Part No: **C8265**

The C8265 is supplied in a gift box with test leads, instruction manual & battery.

Battery: 1 x 9V 6F22

Size: L195 x W92 x T55mm

Weight: ± 380g (incl. battery)

For replacement test leads order AL04

Multifunction Digital Multimeters

T8268 Digital Multimeter 3 ¾ Auto Range

Features

- Sound & light warning for incorrect insertion of leads
- SMT application
- Data hold
- Maximum value measurement
- Auto power off
- Back light
- Display: 3999 counts
- Continuity check with buzzer
- Diode test
- Transistor test 0-1000
- Continuity test
- Duty cycle test
- Relative measurement
- Resettable fuse inside

Compliance and Safety

IEC1010-1 Standard CAT III 600V and CAT II 1000V

Feature	Range	Accuracy
DC Voltage	400m/4/40/400V	±0.7%
DC Voltage	1000V	±0.8%
AC Voltage	400mV±3.0%, 4/40/400V	±0.8%
	750V	±1.0%
DC Current	400µ/400µ/40m/400mA	±1.2%
	10A	±2.0%
AC Current	400µ/400µ/40m/400mA	±1.5%
	10A	±3.0%
Resistance	400/4k/40k/400k/4MΩ	±1.2%
	40MΩ	±2.0%
Capacitance	4nF±5.0%, 40n/400n/4µ/40µ/200µF	±3.0%
Frequency	10/100/1000/10k/200kHz	±2.0%

Ordering Information

Part No: **T8268**

Each unit comes with test leads and manual.

Batteries: 3 x 1.5V AAA

Size: L195 x W92 x T55mm

Weight: Approx. 380g (including batteries)

For replacement test leads order AL04.

C8236 Multifunction Network Digital Multimeter

The **C8236** is a useful general purpose multimeter with extra functions for the data cable installer such as cable testing, tone generation with tracer, phone line status checking, etc. This handy network testing instrument is well priced, providing essential tests for new and existing networks.

Features

- 3 ½ digit, 1999 Count LCD
- CATIII 600V
- Continuity & diode check
- Data/max Hold
- Back Light
- Auto Power Off (APO)
- NCV Detector
- Phone line status check
- Tone generator and receiver
- Network cable checks & tests

Compliance and Safety

IEC61010-1 2nd Edition (2001). CATIII 600V. C-tick

Feature	Range	Accuracy
DC Voltage	200m/2/20/200600V	0.7% + 3d
AC Voltage	200m/2/20/200600V	0.8% + 5d
DC Current	200µA/2/20/200mA/2/10A	1.2% + 5d
AC Current	200µA/2/20/200mA/2/10A	2.0% + 5d
Resistance	200/2/20/200kΩ/2/20MΩ	1.0% + 3d
Phone Check	Identify telephone line status i.e. BUSY, RINGING or CLEAR	
Tone	Track and identify cables	
Network cable checks	Test open or short circuits, correct cable pairs, miswires, reverse connections and split pairs.	
	SHIELD tests screen integrity	
	Remote cable test	

Ordering Information

Part No: **C8236**

Each unit comes in a gift box with operating manual, soft carry bag, batteries, DMM test leads, data test leads and tone tracer.

Batteries: 1 x Standard 9V IEC6LF22

Size: L186 x W88 x T55mm

Weight 400g including Holster

T8229 - 5 in 1 Auto Range Digital Multimeter

SENSORS LUX, RH% & SOUND
Located on top

MANUAL RANGE SELECTION

RELATIVE MEASUREMENT

HOLD DATA BACK LIGHT

COMPACT RUGGED CASE
Rugged housing with soft boot

MULTIPLE DISPLAY
RH%, + temperature constantly displayed
3 ¾ 399 count LCD

TEMPERATURE F° OR C°

AUTO RANGING

FUSE CURRENT RANGES

TEMPERATURE
Measurement type K thermocouple
Measures V, A, Ω, C°, RH%, Lux & sound

CAT III 600V

FEATURE	RANGE	ACCURACY
AC/DC Voltage	400m/4/40/400/1000V	±0.7% to 2%
AC/DC Current	400µ/4000µ/40m/400mA	±1.2% to 3%
	10A	
Resistance	400/4k/40k/400k/4M/4MΩ	±1.0%
Capacitance	50n/500n/5µ/500µ/200µF	±3.0%
Frequency	10/100/1k/10k/100kHz	±2.0%
Temperature	-20°C ~ 1000°C	±3.0% or ±20C, 0°F
Humidity	20% ~ 95%RH	±5.0RH
Light	4000Lux/40000Lux	±5.0%
Sound level	40 ~ 100dB	±5dB

*Refer to CABAC website cabac.com.au for terms and conditions on warranty.

ORDERING INFORMATION

Part No: T8229

Each unit is supplied with soft pouch, test leads, thermocouple & adaptor and instruction manual.

Batteries: 3 x AAA

Size: L195mm x W92mm x T55mm

Weight: Approx. 400g (including batteries)

For replacement test leads order AL04 or AL28-1.

Digital Multimeters

TBM805 Digital Multimeter Practical Professional

A professional digital multimeter, with a large clear display, at an affordable price. The display updates 3 times per second and features all the basic multimeter requirements with data hold, and Beep-Jack™ input warning. Choose according to your pocket between these two professional meters.

Features

- 1000V Protection
- 3¾ Digital 4000 Count LCD
- Max Data Hold/Diode Tester
- Relative Zero
- Beep-Jack™ Input Warning
- Splash Proof
- Diode Test

Compliance and Safety

IEC61010-1 (1995) CAT III 600V, CAT II 1000V. Transient protection 6kV.
Overload protection V = 1050Vrms; mA = 0.5A/250V Fuse; A = 15A/250V HRC Fuse; Others ranges 600Vrms
Meets EN61326 (1997, 1998/A1), EN61000-4-2 (1995), EN61000-4-3 (1996).

Feature	Range	Accuracy
AC/DC Voltage	400m/4/40/400/1000V	± 1.5% ± 5d
AC/DC Current	400µ/4000/40m/400m/4/10A	± 1.8% ± 4d
Resistance	400/4K/40K/400K/4m/40MΩ	± 1.0% ± 4d
Frequency	5Hz to 1MHz	± 0.5% ± 4d
Capacitance	400n/4µ/40µ/400µ/4000µF	± 3.5% ±6d

Ordering Information
Part No: **TBM805**

This unit comes in a gift box with leads, operating manual, installed batteries and protective holster.

Batteries: 2 x 1.5V AAA
Size: L186 x W87 x T35.5mm or L198 x W97 x T55mm with holster
Weight: 296g (396g with holster)

For replacement test leads order AL04.

TBM807 Digital Multimeter True RMS Practical Professional

A professional digital multimeter, with a large clear display, at an affordable price. The display updates 3 times per second and features all the basic multimeter requirements with data hold, and Beep-Jack™ input warning. Choose according to your pocket between these two professional meters.

Features

- 1000V Protection
- 3¾ Digital 4000 Count LCD
- Max Data Hold/Diode Tester
- Relative Zero
- Beep Jack™ Input Warning
- Splash Proof
- Diode Test
- Temperature

Compliance and Safety

IEC61010-1 (1995) CAT III 600V, CAT II 1000V. Transient protection 6kV.
Overload protection V = 1050Vrms; mA = 0.5A/250V Fuse; A = 15A/250V HRC Fuse; Others ranges 600Vrms
Meets EN61326 (1997, 1998/A1), EN61000-4-2 (1995), EN61000-4-3 (1996).

Feature	Range	Accuracy
AC/DC Voltage	400m/4/40/400/1000V	± 1.5% ± 5d
AC/DC Current	400µ/4000/40m/400m/4/10A	± 1.8% ± 4d
Resistance	400/4K/40K/400K/4m/40MΩ	± 1.0% ± 4d
Frequency	5Hz to 1MHz	± 0.5% ± 4d
Capacitance	400n/4µ/40µ/400µ/4000µF	± 3.5% ± 6d
Temperature	-20°C to 300°C	± 2% ± 3°C/6°F

Ordering Information
Part No: **TBM807**

Each unit comes in a gift box with leads, operating manual, installed batteries and protective holster.

Batteries: 2 x 1.5V AAA
Size: L186 x W87 x T35.5mm or L198 x W97 x T55mm with holster
Weight: 296g (396g with holster)

For replacement test leads order AL04.

CAT III 600V

LIFETIME OF PRODUCT WARRANTY*

BM251 - Digital Multimeter General Purpose

AUTO & MANUAL RANGING
Auto ranging with manual ranging override

FUNCTION SELECTION
Toggle conveniently between primary & secondary functions

LOGIC LEVEL Hz (mV FUNCTION)
Measures hi frequency logic signals

BEEP-JACK™ INPUT WARNING
Beeps against improper A-terminal plug in. Decreases the risks of damage

PC INTERFACE CAPABILITY
Optional purchase RS232C+USB cables with data recording PC software for WIN98/NT/4/2K/XP/VISTA

LARGE 6000 COUNTS LCD DISPLAY
5/Sec Fast Nominal Update Rate
3⅘ Digit

ANALOG BAR-GRAPH
Fast update Rate 40/Sec

DATA HOLD
Freezes the displaying reading for later view & NCV

LINE LEVEL Hz (V FUNCTION)
Measures noisy high voltage ACV frequencies

EMC
Meets EN61326-1:2006 (EN55022, EN61000-3-2/-3 & EN610110-4-2/-3/-4/-5/-6/-8/-11)

LVD SAFETY (COMPLIANCE)
Meets EN610110-1 2nd Edition CATII 1kV, CATIII 600V & CATIV 300V
Overload protection:
μA & mA - 150kA fuse
A - 100kA fuse
Y - 1050Vms
Ω, mV volts - 600V min

FEATURE	RANGE	ACCURACY
AC Voltage	60m/600m/6/60/600/1000V	1.0% + 5d
DC Voltage	60m/600m/6/60/600/1000V	± 0.2% + 3d
AC/DC Current	600μ/6000μ/60m/600m/6/10A	± 1% + 3d
Resistance	600/6K/60K/600K/6M/60MΩ	0.7% + 4d
Logic Level Frequency	5Hz to 500kHz	0.03% + 2d
Line Level Frequency	5Hz to 10kHz	0.03% + 3d

*Refer to CABAC website cabac.com.au for terms and conditions on warranty.

ORDERING INFORMATION

Part No: BM251

Each unit comes with test leads, protective holster, batteries and operating manual.

Optional Batteries: 2 x 1.5V AAA

Size: L161 x W80 x T50mm; **Weight:** 340g

For replacement test leads order AL04.

Optional accesories

Software & cable interface
Part No: BRUA-20X

Magnetic hanger
Part No: BMH-01

Autocheck™ Multimeters

These three meters are designed with a high degree of protection. With two special features such as a sliding scale impedance relative to the test voltage known as Lo-Z & Autocheck™, and transient protection for a 12kV lightning surge (1.2/50ms), makes them a leading feature test instrument. The meters are double moulded, easy to use, comfortable to hold and a safe and reliable tool for use in extremely rugged conditions. Choose the professional multipurpose unit with current measurement or a deluxe meter with extra features of range select, capacitance, diode test and continuity test or the basic standard model.

TBM685 Digital Multimeter Deluxe Autocheck™

- 3¾ Digit 6000 Count LCD
- CAT IV 1000V
- Updates 5 x per second
- Autocheck™ V & Ω
- EF Detection
- APO Idle for 3 min
- Data Hold
- Display LCD
- Size 26 x 61mm

Compliance and Safety
CAT IV 1000V

Feature	Range	Accuracy
DC Voltage	6V/60V/600V/1000V	± 1.2% + 2d
AC Voltage	6/60/600/1000V	± 2% + 6d
Resistance	6kΩ, 60kΩ, 600kΩ, 6MΩ	
Diode Test	< 1.6VDC, 0.25mA, Response <100ms	± 1.2% + 4d
Continuity	600Ω, Threshold 50 to 250Ω, Response < 100ms	
Capacitance	100nF, 1000nF, 10µF, 100µF, 2000µ	± 2.5% + 5d

Ordering Information
Part No: **TBM685**
For replacement test leads order AL04

TBM682 Digital Multimeter Standard Autocheck™

- 3¾ Digit 6000 Count LCD
- CAT IV 1000V
- Updates 5 x per second
- Autocheck™ V & Ω
- EF Detection
- APO Idle for 3 min
- Data Hold

Feature	Range	Accuracy
DC Voltage	6V/60V/600V/1000V	± 1.2% + 4d
AC Voltage	6/60/600/1000V	± 2.5% + 6d
Resistance	6kΩ/60kΩ/600kΩ/6MΩ	

Ordering Information
Part No: **TBM682**
For replacement test leads order AL04

BM821 Digital Multimeter Professional

This meter is the mainstay of the CABAC range of multimeters and is designed for use in heavy industry such as mining. Robust, dustproof and splash-proof, this meters has all the basic features a professional tradesman will require from a DMM. If you are looking for a reliable meter that will give many years of service then consider this excellent, rugged meter.

Features
- 4 Digital 10000 Count
- Dual Display
- 1000V Protection
- Data Hold/Diode Tester
- Beep-Jack™ Input Warning
- Current Range Fused (600V HBC Fused)
- Bargraph
- USB Interface (optional)

Optional Accessories
RS 232 Optical Cable with Special Software (for PC running XP).

Compliance and Safety: IEC61010-1 2nd Edition (2001) CAT IV 1000V. Transient protection 8kV.
Overload protection: V = 1050Vrms; mA = 0.63A/500V; HRC Fuse; A = 12.5A/550V HRC Fuse; Others ranges 600Vrms; Meets EN61326 (1997, 1998/A1), EN61000-4-2 (1995), EN61000-4-3 (1996).

Feature	Range	Accuracy
AC/DC Voltage	60m/600m/9.999/99.99/999.9 V	±1% + 4d
AC/DC Current	600µ/6000µ/60m/600m/6/10 A	± 0.8% + 4d
Resistance	600/6K/60K/600K/6M/60MΩ	0.5% + 4d
Capacitance	60n/600n/6µ/60µ/600µ/6m/25mF	± 2% + 3d
Logic Level Frequency:	15Hz to 1kHz	± 0.04% + 4d
Line Level Frequency:	5Hz to 1MHz	0.004% + 4d

Ordering Information
Part No: **BM821**
Each unit comes in a gift box with leads, operating manual, batteries installed and protective holster.
Battery: Standard 1 x 9V 6F22
Size: L208 x W103 x T64.5mm with holster
Weight: 340g (430g with holster)
For replacement test leads order AL04.

Optional Accessories
USB Optical Cable with Special Software - **Part No: BU-86X**
Magnetic Hanger - **Part No: BMH-01**

*Refer to CABAC website cabac.com.au for terms and conditions on warranty.

CAT IV 1000V

LIFETIME OF PRODUCT WARRANTY*

BM822 - Digital Multimeter Professional True RMS

DUAL DIGITAL DISPLAY
Simultaneously view relevant parameters in complementary display

AUTO & MANUAL RANGING
Auto ranging with manual ranging override

BEEP-JACK™ AUDIBLE & VISIBLE WARNING
Guards against improper A-terminal plug in. Decreases the risks of damage

PC INTERFACE CAPABILITY
Optional purchase USB cables with data recording PC software for WIN98/ NT/4/2K/XP/VISTA/Win7

LARGE 10,000 COUNTS LCD DISPLAY
5/Sec Fast Nominal Update Rate
4 Digits
10000 count V, Hz & mS
6000 count mV, mA, A, Ω & F

DATA HOLD
Freezes the displaying reading for later view

LVD SAFETY (COMPLIANCE)
Meets EN61010-1 2nd Edition CATIV 1kV

OVERLOAD PROTECTION
AmA & ΩA - 100kA Fuses
V 1050V RMS Ω & other 600V RMS

TRUE RMS MEASUREMENTS
For complex voltage or current signals

FEATURE	RANGE	ACCURACY
AC/DC Voltage	60m/600m/9.999/99.99/999.9 V	±1% + 4d
AC/DC Current	600µ/6000µ/60m/600m/6/10 A	± 0.8% + 4d
Resistance	600/6K/60K/600K/6M/60MΩ	0.5% + 4d
Capacitance	60n/600n/6µ/60µ/600µ/6m/25mF	± 2% + 3d
Logic Level Frequency:	15Hz to 10kHz	± 0.04% + 4d
Line Level Frequency:	5Hz to 1MHz	0.004% + 4d

*Refer to CABAC website cabac.com.au for terms and conditions on warranty.

ORDERING INFORMATION

Part No: **BM822**

Each unit comes in a gift box with leads, operating manual, battery installed and protective holster.

Battery: Standard 1 x 9V 6F22

Size: L208 x W103 x T64.5mm with holster

Weight: 340g (430g with holster)

For replacement test leads order AL04

Optional Accessories

USB Optical Cable with Special Software
Part No: BU-86X

Magnetic Hanger
Part No: BMH-01

CAT IV 1000V

LIFETIME OF PRODUCT WARRANTY*

BM827 - Digital Multimeter Professional True RMS

HIGH ACCURACY
0.08% Basic DCV accuracy
fast auto ranging

DUAL DIGITAL DISPLAY
Simultaneously view relevant parameters in complementary display

CREST (PEAK HOLD)
Captures instantaneous +peak & -peak, auto ranging

LOGIC LEVEL Hz (mV FUNCTION)
Measures hi frequency logic signals

BEEP-JACK™AUDIBLE & VISIBLE WARNING
Beeps against improper A-terminal plug in. Decreases the risks of damage

PC INTERFACE CAPABILITY
Optional purchase USB cables with data recording PC software for WIN98/ NT/4/2K/XP/VISTA/WIN7

LARGE 10,000 COUNTS LCD DISPLAY
5/Sec Fast Nominal Update Rate
4 Digits
10000 count V, Hz & mS
6000 count mV, mA, A, Ω & F

ANALOG BAR-GRAPH
Fast update Rate 60/Sec

EF DETECTION
Both non contact (NCV) & single probe voltage detection for identifying live lines

DATA HOLD
Freezes the displaying reading for later view

MAX MIN AVG RECORD
Record max/min/max-min/avg readings & auto-ranging

LVD SAFETY (COMPLIANCE)
Meets EN61010-1 2nd Edition CATIV 1kV

OVERLOAD PROTECTION
AmA & ΩA - 100kA Fuses
V 1050V RMS Ω & other 600V RMS

TRUE RMS MEASUREMENTS
For complex voltage or current signals

FEATURE	RANGE	ACCURACY
AC/DC Voltage	60m/600m/9.999/99.99/999.9 V	± 1.0% + 4d
AC/DC Current	600µ/6000µ/60m/600m/6/10 A	± 0.8% + 4d
Resistance	600/6K/60K/600K/6M/60MΩ	± 0.5% + 4d
Frequency	5Hz to 1.00KHz	± 0.04% ± 4d
Capacitance	60n/600n/6µ/60µ/600µ/6m/25mF	± 2.0% + 3d
Logic Level Frequency:	15Hz to 10kHz	± 0.04% + 4d
Line Level Frequency:	5Hz to 1MHz ± 0.004%	± 0.004% + 4d
Temperature	-50°C to 1000°C	± 0.3% + 2d
Conductance (nS):	0.01 to 99.99 nS	± 0.8% + 10d

*Refer to CABAC website cabac.com.au for terms and conditions on warranty.

ORDERING INFORMATION

Part No: **BM827**

Each unit comes in a gift box with test leads, protective holster, installed battery and operating manual.

Battery: 1 x 9V 6F22

Size: L208 x W103 x T64.5mm with holster

Weight: 340g (635g with holster)

For replacement test leads order AL04.

Optional Accessories

USB Optical Cable with Special Software
Part No: **BU-86X**

Magnetic Hanger
Part No: **BMH-01**

CAT IV 1000V

LIFETIME OF PRODUCT WARRANTY*

BM525 - Professional True RMS DMM Data Logger

HIGH ACCURACY
0.08% Basic DCV accuracy
fast auto ranging

DUAL DIGITAL DISPLAY
Simultaneously view relevant parameters in complementary display

HIGH ACCURACY
0.08% basic DCV accuracy;
fast auto-ranging

CREST (PEAK HOLD)
Captures instantaneous +peak & -peak, auto ranging

GHOST VOLTAGE BUSTER
LoZ drains ghost/stray voltages leaving only hard signals on meter readings

BEEP-JACK™AUDIBLE & VISIBLE WARNING
Guards against improper A-terminal plug in. Decreases the risks of damage

PC INTERFACE CAPABILITY
Optional purchase USB cables with data recording PC software for WIN98/ NT/4/2K/XP/VISTA/WIN7

LARGE 10000 COUNTS LCD DISPLAY
5/Sec Fast Nominal Update Rate
4 Digits

ANALOG BAR-GRAPH
Fast update Rate 60/Sec

STAND ALONE DATA LOGGING
Up to 87,000 data items in single display mode, or 43,000 data items in dual display mode

STAND ALONE DATA RECALL
On screen review logged readings without the need of a computer

DATA HOLD
Freezes the displaying reading for later view

MAX MIN AVG RECORD
Record max/min/max-min/avg readings & auto-ranging

LVD SAFETY (COMPLIANCE)
Meets EN61010-1 2nd Edition
CATIV 1kV

OVERLOAD PROTECTION
mAmA - 10kA Fuse
A - 20kA Fuse
Voltages - 1050V RMS

AC, AC+DC TRUE RMS MEASUREMENTS
For non-sinusoidal waveforms of complex voltage or current signals

FEATURE	RANGE	ACCURACY
AC/DC/AC+DC	Voltage 60m/600m/9.999/99.99/999.9 V	±1% + 4d
AC/DC/AC+DC	Current 600µ/6000µ/60m/600m/6/10 A	± 0.8% + 4d
Resistance	600/6K/60K/600K/6M/60M Ω	± 0.5% + 4d
Capacitance	60n/600n/6µ/60µ/600µ/6m/25mF	± 2% + 3d
Logic Level Frequency:	15Hz to 10kHz	± 0.04% + 4d
Line Level Frequency:	5Hz to 1MHz	± 0.004% + 4d
Temperature	-50°C to 1000°C	± 0.3% + 2d
Conductance (nS):	0.01 to 99.99 nS	± 0.8% + 10d

*Refer to CABAC website cabac.com.au for terms and conditions on warranty.

ORDERING INFORMATION

Part No: **BM525**

Each unit comes with test leads, protective holster, thermocouple, installed battery and operating manual.

Batteries: 1 x 9V 6F22;
Size: L208 x W103 x T64.5mm with holster
Weight: 635g with holster

For replacement test leads order AL04.

Optional Accessories

USB Optical Cable with Special Software
Part No: BU-86X

Current Clamp
Part No: T202

Magnet Hanger
Part No: BMH-01

CAT IV 1000V

LIFETIME OF PRODUCT WARRANTY*

BM869 - Digital Multimeter High Performance True RMS

HIGH ACCURACY
0.02% Basic DCV accuracy;
1μVDC best resolution

DUAL DIGITAL DISPLAY
Simultaneously view relevant parameters in complementary display

HIGH ACCURACY
0.08% basic DCV accuracy;
fast auto-ranging

CREST (PEAK HOLD)
Captures instantaneous +peak & -peak, auto ranging

HIGH IMPEDANCE VOLTAGE
1000VAC/DC measuring capabilities; High input impedance for load sensitive circuits

dBm FUNCTION
With 20 selectable reference impedance values

VFD V & Hz FEATURE
Measures fundamental voltage & frequency of most variable frequency drives

BEEP-JACK™AUDIBLE & VISIBLE WARNING
Guards against improper A-terminal plug in. Decreases the risks of damage.

PC INTERFACE CAPABILITY
Optional purchase USB cables with data recording PC software for WIN98/ NT/4/2K/XP/VISTA/WIN 7.

LARGE 50,000 COUNTS LCD DISPLAY
5/Sec Fast Nominal Update Rate
4 ½ Digits

ANALOG BAR-GRAPH
Fast update Rate 60/Sec

STAND ALONE DATA LOGGING
Up to 87,000 data items in single display mode, or 43,000 data items in dual display mode

DATA HOLD
Freezes the displaying reading for later view

MAX MIN AVG RECORD
Record max, min & avg readings; auto-ranging

%4-20mA LOOP CURRENT
For process control % readout

FAST AUDIBLE CONTINUITY
For quick open short tests on switches, fuses and wires

LVD SAFETY (COMPLIANCE)
Meets EN61010-1 2nd Edition CATIV 1kV

OVERLOAD PROTECTION
mAmA - 10kA Fuse
A - 20kA Fuse
Voltages - 1050V RMS

AC, AC+DC TRUE RMS MEASUREMENTS
For non-sinusoidal waveforms of complex voltage or current signals

FEATURE	RANGE	ACCURACY
AC/DC Voltage	500m/5/50/500/1000V	± 0.8% + 20d
AC/DC Current	500μ/5000μ/50m/500m/5/10A	± 0.5% + 50d
Resistance	500/5K/500K/5M/50MΩ	± 0.07% + 10d
Frequency Line	10Hz ~ 200kHz	± 0.002% + 4d
Logic	5Hz ~ 12MHz	± 0.002% + 4d
Capacitance	50n/500n/5μ/50μ/500μ/5m/25mF	± 2.0% + 3d
Temperature	-50°C to 1000°C	± 0.3% + 1°C

*Refer to CABAC website cabac.com.au for terms and conditions on warranty.

ORDERING INFORMATION

Part no: **BM869**
Each unit comes in a gift box with operating manual, batteries installed, test leads, one type-k thermocouple.
Batteries: 1 x Alkaline 9V IEC6LF22
Size: L208 x W103 x T64.5mm with Holster
Weight: 635g including Holster
For replacement test leads order AL04.

Optional Accessories
USB Optical Cable with Special Software
Part No: **BU-86X**

Magnetic Hanger
Part No: **BMH-01**

Clamp Current Meters

SELECTION CHART

FEATURES	T2600	C2001C	BM111M	BM127M	C2010	T9001	TBM116	TBM135	TBM118	C2108	C2138	T9005	T9105	T2608	T5637	T202	TA300	TBM155
Jaw Size	12	42	26	28	31x40	42	45	45	45	26	42	42	34x65	57	35	57	194	45
Display	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Adaptor	Adaptor	Digital
LCD Display Counts	3999	1999	4000	4000	4000	4000	4000	4000	6000	6600	3999	10000	10000	4000	9999			6000/9999
LCD Display Digits	3¾	3¼	3¼	3¾	3½	3¾	3¼	3¼	3⅞	3⅞	3¾	4	4	3¾	4			3¾
Backlight	✓	✓			✓			✓		✓	✓	✓	✓					✓
Bargraph					✓						✓	✓	✓	✓				
AC Current	200	1000	600	400	600	600	1000	1000	2000	660	1000	600	1000	2000	35	1500	3000	1000
DC Current										660	1000	400	600	1500		2000		
AC Voltage	700	750	600	600	600	600	600	600	600	660	700	600	600	750				600
DC Voltage	1000	1000	600	600	600	600	600	600	600	660	1000	600	600	1000				600
Auto Ranging	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓
Reletive Zero			✓			✓	✓			✓	✓	✓	✓	✓				
APO	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Resistance	40M	2k	40M	40M	20M	40M	40M	1k	6M	6M	40M	40M	40M	40M	0.025 - 1.5 k			
Continuity Buzzer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓
Frequency Hz	100k		50k	50k	100k	5M		500	50k	10k	100k	400	400	400k				
Capacitance (µF)	4		3000	3000	200µ	100			2000	66m		999.9	999.9	40				
Temperature °C		-40 to 750		-20 to 300	20 to 1000			-50 to 300				-40 to 1200	-40 to 1200					-50 to 300
True RMS							✓	✓	✓	✓		✓	✓	✓	✓			✓
Diode Test		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓				✓
Peak Hold												✓	✓	✓				✓
Data Hold	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓			✓
Min/Max Recording			max	max	✓						✓	✓	✓	✓				
Special Feature				Dual Display	Leakage, Low Pass Filter	EF		Current Logger, HDT%-R, Serial PC Comms		Clamp Light	Clamp Light	1MΩ Imput Impedance	1MΩ Imput Impedance		Ground Resistance Clamp, Leakage			kVA, W, THD%, Serial PC Comms.
CAT III	600V	600V	600V	600V	600	1000V	600V	600V	600V	600V	600V	1000V	1000V	600V	300V	600	600	600
CAT IV	300V	300V	300V	300V	300	600V	300V	300V	300V	300V	300V	600V	600V	300V	150V		300	300
Warranty Years	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

The range of clamp meters covers a wide variety of needs from a basic low cost unit, to a sophisticated device with multi functions and many features. A clamp meter with voltage and resistance range can fulfil most general requirements for electrical measurement in the field. For a specialist there are features of temperature, AC/DC measurement, high current or leakage current. Generally clamp meters are easy to use and fundamental for electrical measurement.. Our goal is to supply reliable, safe and a continually improving range of test equipment.

AC Clamp Meters

T2600 Digital Clamp Meter Open Jaw 200A AC

A handy instrument for quick AC current measurement to 200 Amp and various digital multimeter functions. The casing is designed for easy use and storage of the test leads. The meter has a number of extra features of AC/DC voltage, capacitance, frequency, duty cycle, continuity, diode test and incorporates auto or manual ranges. An LCD backlight assists reading in low light areas. It has more features like relative measurements and data hold.

Features

- Easy to Use / Access
- 3½ Digit 3999 Count LCD
- Auto Off
- Data Hold
- Duty Cycle
- Relative Zero

Compliance and Safety
IEC610101-1 and -2-032 CAT III 600V
European Community Directives 89/336/EEC (EMC)
And 73/23/EEC (low voltage), CE

Feature	Range	Accuracy
AC Current	200A	± 3.0% ± 3d
AC Voltage	4/40/400 V/700 V	± 0.8% ± 5d
DC Voltage	4/40/400 V/1000 V	± 0.8% ± 3d
Resistance	400/4k/40k/400k/4m/40MΩ	± 1.2% ± 1d
Frequency	10 Hz to 100kHz	± 2.0% ± 1d
Capacitance	4n/400n/4µ/10µF	± 4.0% ± 10d
Jaw Size	12mm	

Ordering Information
Part No: **T2600**
Each unit comes in a soft pouch with battery, test leads and manual.
Battery: 1 x 9V 6F22
Size: L193 x W68 x H43mm
Weight: 230g
For replacement test leads order AL04

C2001C Digital Clamp Meter 1000A AC (Replaces T98)

A well priced AC current meter clamp for general industrial use with a large jaw. Accurate on lower ranges due to current selection of 20, 200 and 1000A. The meter has the added feature for temperature and it comes in an attractive robust case.

Features:

- 3 ½ digit 1999 count LCD
- Data hold
- Continuity test
- Diode tester
- Backlit display

Safety and Compliance
Conforms to IEC61010-1 CAT II 1000V/CAT III 600V, CE

Feature	Range	Accuracy
AC Current	20/200/1000A	± 2.0% ± 5d
AC Voltage	750V	± 1% ± 2d
DC Voltage	1000V	± 1% ± 2d
Resistance	200/2000Ω	± 1% ± 3d
Temperature	-40°C to 750°C	± 1% ± 3d
Jaw size	42mm	

Ordering Information:
Part No: **C2001C**
The C2001C is supplied in a gift box with soft pouch, test leads, instruction manual, type-k thermocouple & batteries.
Batteries: 1 x 9V 6F22
Size: L250 x W99 x T43mm
Weight: ± 460g

For replacement test leads order AL04

CAT III 600V

BM127M - Digital Clamp 600A AC Compact, Dual Display

SMALL ULTRA SLIM CLAMP JAWS
For easy access to tight places with AC 600A capability

LVD CAT III 600V SAFETY
Meets both EN610110-2-032 CAT III 600V & UL610110B-2-032 CAT III 600V

30ms MAX HOLD
Captures in-rush RMS values of ACA or ACV as short as 30ms in duration

RELATIVE ZERO
For convenient readings comparison & zero offset

DATA HOLD
Freezes the displaying reading for later view

DISPLAY - CURRENT CLAMP

FULLY AUTORANGING DMM
Ease of use

DISPLAY V, °C/F, μA, Ω

LIGHT WEIGHT & SMALL BODY
Also comes with a soft touch pouch for easy carrying & protection

AUDIBLE CONTINUITY
For quick open short tests on switches, fuses and wires

CAT III 600V

FEATURE	RANGE	ACCURACY
AC Current	40/400/600A	± 1.9% + 8d
ACμA	400/2000	± 2 ± 5d
DCμA	400/2000	± 1.5 ± 5d
AC Voltage	4/40/400/600 V	± 1.5% + 5d
DC Voltage	400m/4/40/400/600 V	± 0.5% + 3d
Resistance	400/4k/40k/400k/4M/40MΩ	± 1.0% + 4d
Frequency	5 Hz to 100kHz	± 0.5% + 4d
Capacitance	500n/5μ/50μ/500μ/3000μF	± 3.5% + 6d
Temperature	-20° to 300°C	± 2% ± 3°C
Jaw Size	28mm	

*Refer to CABAC website cabac.com.au for terms and conditions on warranty.

ORDERING INFORMATION

Part No: **BM127M**
Each unit comes in a gift box with operating manual, 2 batteries installed and 2 spares and soft carry pouch.
Batteries: 2 x 1.5V LR44
Size: L190 x W63 x H32mm
Weight: 187g
For replacement test leads order AL04.

Earth Leakage Clamp Meters/AC Clamp Meters

C2010 Clamp Meter 600A AC and Leakage Current

The C2010 is a very accurate current clamp capable of measuring in the low mA range.
It is suitable for detecting leakage current in earth conductors.
Feature packed with functions such as max recording, relative measurement, backlight, etc.

Features

- 3½ digit, 3999 Count LCD
- CATIII 600V
- Auto/manual ranging
- Relative Measurement
- Backlight LCD
- Continuity with buzzer
- Diode check
- Data Hold
- Duty Cycle 0.1% to 99.9%
- Low Pass Filter for Voltage measurement
- Temperature Type- k Thermocouple
- 10 MΩ input – voltage
- Resistance range - 250V AC/DC PTC Circuit Protection

Compliance and Safety
IEC61010-1 CATIII 600V. C-tick

Feature	Range		Accuracy
AC Current	20m/200m/2/20/200/600A	50 to 60Hz	1% ± 8d
		30Hz to 10kHz	3% ±10d
DC Voltage	200m/2/20/200/600V		0.7% ± 3d
AC Voltage	200m/2/20/200/600		
	5- to 60Hz		0.8% ± 5d
Resistance	200Ω/2k/20k/200k/2MΩ		1% ± 2d
	20MΩ		2% ± 5d
Temperature	-20°C to 20°C		5% ± 5d
	0°C to 400°C		1% ± 3d
	400°C to 1000°C		2% ± 3d
Frequency Probe	10/100Hz		2% ± 3d
Frequency Clamp	2% ± 3 dgt.		
Jaw Size	31x40mm		

Ordering Information
Part No: **C2010**
Each unit is supplied in a gift box with operating manual, soft carry bag, batteries, thermocouple, test leads.
Battery: 3 x AAA
Size: L260× W92× T55mm
Weight: + 400g
Spare leads: AL28-1

Digital Clamp 600A AC & Multimeter

A handy auto ranging clamp amp meter, with multimeter functions with a proven track record. Ideal for general purpose electrical work. It is well priced, compact and easily fits into a pocket.

Features

- 3¾ Digit 4000 Counts
- Max Data Hold
- Relative Zero

Narrower & Lighter Clamp Design

Feature	Range	Accuracy
AC Current	40/400/600A	± 1.9% ± 8d
AC Voltage	4/40/400/600 V	± 1.5% ± 5d
DC Voltage	400 m/4/40/400/600 V	± 0.5% ± 3d
Resistance	400/4k/40k/400k/4M/40MΩ	± 1.0% ± 4d
Frequency	5 Hz to 100kHz	± 0.5% ± 4d
Capacitance	500n/5µ/50µ/500µ/3000µF	± 3.5% ± 6d
Jaw Size	28mm	

Compliance and Safety
IEC61010-2-032, (1994), CAT II 600V, CAT III 300V (the category being upgraded) Pollution Degree 2, EN61326 1997, (1998/A1), EN61000-4-3 (1996)

Ordering Information
Part No: **BM111M**
Each unit comes in a gift box with operating manual, batteries installed and soft carry pouch.
Batteries: 2 x 1.5V LR44
Size L190 x W63 x T32mm
Weight 187g
For replacement test leads order AL04.

AC Clamp Meters

TBM116 Digital Clamp Meter 1000A AC & True RMS

Two unique AC clamp meters, packed with features that will provide the user with reliable test information. Voltage input impedance is 10MΩ, 30pF. The unit is protected against overloads i.e. 1000A and 600V AC/DC.

Features

- 3¾ Digit 4000 Count LCD
- Data Hold
- Relative Zero
- APO idle 30 min
- Power Consumption APO TBM115 = 40µA, TBM116 = 190mA
- Updates 3 x per second

Compliance and Safety

IEC61010-2-032 2nd Ed. (2002), UL3111-2-032 (1999)
CAT III 600V Pollution Degree 2, EN61326 1997, 1998/A1),
EN61000-4-3 (1996)

Feature	Range	Accuracy
DC Voltage	400 mV/ 4/ 40/ 400 V/ 600V	1.7% ± 3d
AC Voltage	50-60 Hz 4/ 40/ 400V/ 600V	2.0% ± 5d
Resistance	400/ 4k/ 40k/ 400k/ 4M/ 40MΩ	1.5% ± 4d
Continuity	400Ω 0.4V (Audible;10Ω to 120Ω)1.5% +5d	1.5% ± 5d
AC Current	400A, 1000A 50/60Hz	1.5% ± 5d
TBM116 Crest Factor < 2.6:1 @ full scale & < 5.2:1 @ ½ scale		
Jaw Size	45mm	

Ordering Information

Part No:
TBM116 (True RMS)
This unit is supplied in a gift box with operating manual, batteries installed and soft carry pouch.
Batteries: 2 x 1.5V AAA
Fuse None
Size: 224 x W78 x T40mm
Weight 220g
For replacement test leads order AL04

TBM118 Digital Clamp Meter 2000A AC True RMS

A unique AC 2000A clamp meters, packed with features such as Autocheck™ (automatic DCV, ACV & Ω detection) and Lo-Z (drains ghost voltages in auto-VΩ position).

Features

- 3⅝ Digit 6000 Count LCD
- Autocheck™ V & Ω
- Electric Field Detection (EF). Antenna on top side of stationary jaw
- Data Hold
- APO, idle 3 min
- Updates 5 x per second
- Back light
- True RMS

Compliance and Safety

IEC61010-2-032 2nd Ed. (2002), UL3111-2-032 (1999) CAT III 600V
Pollution Degree 2,EN61326 1997, 1998/A1), EN61000-4-3 (1996)

Feature	Range	Accuracy
AC/DC Voltage	6, 60, 600V	± 2.0% ± 5d
AC Current	2000A 50/60Hz	± 1.5% ± 5d
Resistance	6k, 60k, 600k, 6MΩ	± 2.0% ± 4d
Continuity	600Ω 0.4V (Audible;10Ω to 2500Ω)	± 2% ± 8d
Capacitance	100nF, 1000nF, 10µF, 100µF, 2000µF	± 3.5% ± 5d
Frequency	10Hz to 50kHz	± 0.5% ± 4d
Jaw size	45mm	

Ordering Information

Part No: **TBM118**
The unit comes in a gift box with operating manual, test leads, batteries installed and soft carry pouch
Batteries: 2 x 1.5V AAA
Fuse: None
Size: L224 x W78 x T40mm
Weight 220g
For replacement test leads order AL04

AC & AC/DC Clamp Meters

TBM135 Digital Clamp Logger 1000A AC & True RMS

Ideal for quick data logging and checking maximum and minimum demand over a period.

Features

- Voltage 6000, Hz & Ω 9999, Amp 4000 Counts Display
- Stand Alone 5400 Points Hi-Lo Data Logging
- Update Rate Hz - 2/sec, V, A, Ω, Temp - 4/sec
- APO: Idle for 17 min
- Hi-Lo Logging
- Auto Hold
- Backlight
- PC Interface (optional) & software

Compliance and Safety

IEC61010-2-032 2nd Edition (2002), UL3111-2-032 (1999) CAT III 600V Pollution Degree 2, EMC: EN61326 1997, 1998/A1), EN61000-4-3 (1996)

Feature	Range	Accuracy
AC/DC Voltage	600V	± 1.5% ± 5d
Resistance	999.9Ω	± 1.0% ± d
Continuity	50Ω to 250Ω, 0.4V (Audible;10Ω ~ 120Ω)	± 1.5% ± 5d
AC Current	40, 400, 1000A	± 2.0% ± 5d
Temperature	-50° to 300°C, -58° to 572°F	± 2% ± 3°C
Frequency	5Hz to 500Hz	± 0.5% ± 4d
THD%-R*	0% to 99.9%	± 5% ± 6d
Jaw size	45mm	

Ordering Information

Part No: **TBM135**

The unit comes in a gift box with operating manual, batteries installed, test leads, type k - thermocouple and soft carry pouch.

Batteries: 2 x 1.5V AAA
Size: L224 x W78 x T40mm
Weight: 224g

Optional Software and Interface Cable

Part No: **TBR13X**

For replacement test leads order AL04

C2108 Digital Clamp Meter 660A AC/DC

A 6600 count mini true-RMS AC/DC digital compact clamp meter with overmoulded casing and in-rush current testing. This unique meter has many features such as clamp on frequency function and a clamp light.

Features.

- 3⅝ digit 6600 LCD
- Clamp on frequency function
- Auto power off
- Auto/Manual ranging
- Clamp lighting
- Back light
- In-rush current

Safety and Compliance

Conforms to IEC1010-1 standard CAT III 600V, CE.

Feature	Range	Accuracy
DC Voltage	660mV/6.6/66/660V	± 0.8%
AC Voltage	660mV/6.6/66/660V	± 1.0%
AC Current	66/660A	± 3.0%
DC Current	66/660A	±3.0%
Resistance	660/6.6k/66k/660k/6.6Ω	± 1.2%
	66MΩ	± 2.0%
Frequency - Terminals	10Hz - 10kHz	± 2.0%
Frequency - Clamp	10Hz - 1kHz	± 2.0%
Capacitance	66µ/660µ/6.6/66mF	± 4.0%
Jaw Size	26 mm	

Ordering Information:

Part No: **C2108**

The C2108 supplied in a gift box, with soft pouch, leads, batteries and instruction manual.

Batteries: AAA (1.5V) x 3
Size. L208 x W78 x T35mm
Weight: ± 340g (exl. battery)

For replacement test leads order AL04

AC + AC/DC Clamp Meters

C2138 Digital Clamp Meter 1000A AC/DC

A good quality 1000AC/DC digital clamp meter. This meter has handy functions such as relative zero and data hold.

Features.

- 3¾ digit 3999 count LCD
- Auto power off
- Auto/Manual ranging
- Auto zero key for DC current
- Clamp light
- Backlight
- Bargraph - 42 segment

Safety and Compliance

Conforms to IEC1010-1 and IEC1010-1-032 standard CAT III 600V CAT II 1000V. Double insulated. CE.

Feature	Range	Accuracy
DC Voltage	4/40/400V	± 0.8%
	1000V	± 1.0%
AC Voltage	4/40/400V	± 1.0%
	700V	± 1.2%
AC Current	400/1000A	± 3.0%
DC Current	400/1000A	± 3.0%
Resistance	400/4k/40k/400k/4M	± 1.0%
	40MΩ	± 2.0%
Frequency	40Hz to 100KHz	± 0.1%
Clamp Diameter	42 mm	

Ordering Information:

Part No: **C2138**

The C2138 supplied in a gift box, with soft pouch, leads, batteries and instruction manual.

Batteries: 3 x 1.5V (AAA)

Size. H250 xW99 xT43mm

Weight: ± 340g

For replacement test leads order AL04

T9001 Digital Current Clamp 600A AC

This 600A AC clamp is a new generation of clamp meter with some exceptional features such as NCV (non - contact voltage detection). Compact, with a double moulded housing, this meter is attractive, reliable and feature filled.

Features

- 3¾ Digit 4000 Count LCD
- 10Ω Input Impedance
- Data Hold/Relative
- Frequency
- Duty Cycle
- Auto Power Off
- Diode Test
- Double Moulded Housing
- EF or NCV test 100 to 600V

Feature	Range	Resolution	Accuracy
DC Voltage	400m/4/40/400/600 V	100V	± 0.5% ± 1d
AC Voltage	400m/4/40/400/600 V	0.1 to 400 mV	± 1% ± 4 d
AC Current	40/400/600 A	0.01 A	± 3.5% ± 5d
Resistance	400/4k/40k/400k/4M/40MΩ	0.1Ω	± 3% ± 4d
Capacitance	40n/400nF/4/40/100µF	0.1n F	± 3% ± 10d
Frequency	5/50/5k/50k/500k5MHz	0.01 Hz	± 0.1% ± 3d
Duty Cycle	2Hz to 10Hz; 10% to 90%	0.1%	± 2% ± 5d
Jaw Size	42mm		

Compliance and Safety

EN61010 CAT IV 600V pollution degree 2, CE

Ordering Information

Part No: **T9001**

The unit comes in a gift box with test leads and operating manual.

Battery: 9V 6F22 giving ± 200hrs

Size: L233 x W80 x T43mm

Weight: 344g with the battery

For replacement test leads order AL04

CAT IV 600V

T9005 - Digital Clamp Meter 600AC/DC True RMS

JAW
42mm jaw size

APO
Auto power off

INRUSH CURRENT
Inrush current select with for motor starting

ZERO/RELATIVE SELECTION

MIN/MAX RECORDING

ROTARY SWITCH
Selection switch with two off positions

TEMP MEASUREMENT (Type K Thermocouple)

HOLD/PEAK HOLD

LARGE 10,000 COUNTS LCD DISPLAY
4 Digits 10,000 Count LCD with bargraph & backlight

LOW BATTERY INDICATOR

TEMPERATURE, Hz & CONTINUITY

TRUE RMS MEASUREMENT

DOUBLE MOULDED HOUSING

CAT IV 600V

1MΩ INPUT IMPEDANCE

FEATURE	RANGE		ACCURACY
DC Voltage	600.0V	0.1V	± 1% ± 5d
AC Voltage	600V	0.1V	± 1% ± 5d
DC Current	600A	0.1A	± 2% ± 5d
AC Current	600A	0.1A	± 2% ± 5d
Resistance	0 to 999.9; 1000 to 9999Ω	0.1Ω/1Ω	± 1.5% ± 5d
Capacitance	0 to 999.9µF	0.1µF	± 5% ± 10d
Frequency	20 to 400.0Hz	0.1Hz	± 0.5% ± 5d
Temperature	-40 to1200°C	1°C	± 0.5% ± 1°C
Jaw Size	42mm		

ORDERING INFORMATION

CABAC Part no:**T9005** (600V AC/DC)
T9105 alternative clamp (1000A AC/DC)
The unit supplied in a gift box with test leads, type-k thermocouple with adaptor and operating manual.
Batteries: 1 x 9V 6F22 giving ± 50 hrs
Size: L233 x W80 x T43mm
Weight: 346g including battery
For replacement test leads order AL04

AC/DC Clamp Meters

T9105 Digital Current Clamp Meter 1000A AC/DC True RMS

The top of the range of our new generation style clamp meters. Feature packed with in-rush current measurement, peak and data hold, temperature, etc. Ideal for measuring motor start up current.

Features

- 4 Digit 10 000 Count LCD
- True RMS
- 1MΩ Input Impedance
- Data Hold/Relative/Peak Hold
- Min/Max Recording
- In-rush Current Mode (100 ms)
- Backlight
- Frequency
- Temperature Type-k Thermocouple
- Auto Power Off
- Diode Test
- Low Battery Indication
- Double Moulded Housing

Compliance and Safety

EN61010 CAT IV 600V pollution degree 2, CE

Feature	Range	Resolution	Accuracy
DC Voltage	600V	0.1V	± 1% ± 5d
AC Voltage	600V	0.1V	± 1% ± 5d
DC Current	1000A	0.1A	± 2% ± 5d
AC Current	1000A	0.1A	± 2% ± 5d
Resistance	0 to 999.9; 1000 to 9999Ω	0.1Ω/1Ω	± 1.5% ± 5d
Capacitance	0 to 999.9µF	0.1µF	± 5% ± 10d
Frequency	20 to 400.0Hz	0.1Hz	± 0.5% ± 5d
Temperature	-40 to1200 °C	1 °C	± 0.5% ± 1°C
Jaw Size	65 x 34mm		

Ordering Information

Part No: **T9105**

The unit comes in a gift box with test leads, battery, type-k thermocouple with adaptor and operating manual.

Batteries: 1 x 9V 6F22
Size: L254 x W80 x T43mm
Weight: 360g

For replacement test leads order AL04

T2608 Digital Clamp Meter 2000A AC/DC TRUE RMS

An AC and DC true RMS clamp meter that can measure 2000A DC and up to 1500 A AC, with a comprehensive number of features.

Features

- 3¾ Digit 4000 Count LCD
- Bargraph
- Min/Max Hold
- Data Hold
- Relative Zero
- Diode & Continuity Test with Buzzer

Compliance and Safety

IEC61010, EN 55011, EMC – EN55022, CE, C√. Overload protection: 750V ACrms and 1000V DC 500V DC/AC 500Vrms for Ω, frequency and capacitance

Feature	Range	Accuracy
AC Current	200/1500A	±1.5% ± 5d
DC Current	200/2000A	± 1.5% ± 5d
AC Voltage	400m/4/40/400/750V	± 1.5% ± 4d
DC Voltage	400m/4/40/400/1000V	± 0.5% ± 1d
Resistance	400/4K/40K/400K/4M/40MΩ	± 1% ± 4d
Capacitance	4n/40n/400n/4/40mF	± 1% ± 4d
Frequency	100/1k/10k/100k/400kHz	± 0.1% ± 4d
Jaw Size	57mm	

Ordering Information

Part No: **T2608**

Each unit comes with test leads, soft case, manual and battery.

Batteries: 2 x 1.5V AA
Size: H275 x W102 x T49mm
Weight: 540g

For replacement test leads order AL04

AC/DC Earth Impedance Clamp Meters

Earth Resistance Clamp Tester

The T5637 is a unique instrument to test an earth loop in an electrical network. The clamp consists of a two current transformers (CT) in the clamp. One will induce a signal on an earth line and the other CT will receive it. The unit will then display the resistance of the earth connection loop via ground, neutral and earth. The T5637 can also measure current from 0.2 mA up to 35 Amps. Applications are: telecommunications, electrical installations, cable TV systems, electrical distribution poles and anywhere where earth loop impedance is required.

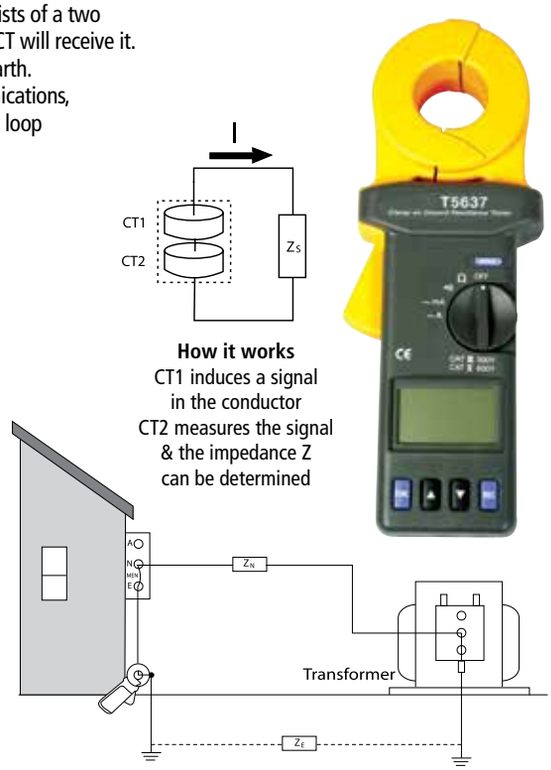
Features

- Non-Contact Earth Resistance Measurement
- No Auxiliary Electrode
- 0.025 to 1500Ω
- 0.2 mA to 35 A True RMS
- 116 sets of Memory
- High and Low Alarm
- Programmable Data Logging
- Data Logging 116 readings
- Data Logging Intervals 1 to 255 seconds
- Battery life ± 3000 readings
- 4 Digit 9999 Count LCD
- Sampling Rate 0.5 Seconds
- Power Consumption 40 mA
- Low Battery Indication
- Operating Temp 0 to 50⁰ C
- Operating Relative Humidity 85%
- Auto Range Selection

Compliance and Safety

EN61010-2-032 CAT III300V, CAT II 600V, CE

Feature	Range	Resolution	Accuracy
Ground Resistance	0.025 to 0.250 Ω	0.002Ω	± 1.5% ± 0.02Ω
(Auto Range)	0.250 to 1.000 Ω	0.02Ω	± 1.5% ± 0.02Ω
	1.001 to 9.999 Ω	0.02Ω	± 1.5% ± 0.1Ω
	10.00 to 50.00 Ω	0.04Ω	± 1.5% ± 0.1Ω
	50.01 to 100.0 Ω	0.04Ω	± 1.5% ± 0.5Ω
	100.1 to 200.0 Ω	0.4Ω	± 3% ± 1Ω
	200.1 to 400.0 Ω	2Ω	± 5% ± 5Ω
	400.1 to 600.0 Ω	5Ω	± 10% ±10Ω
	600.1 to 1500 Ω	20Ω	± 20%
Ground/Leakage Current (mA Auto Range,50/60 Hz, True RMS, Crest Factor < 3.5)	0.200 to 1.000 mA 1.00 to 10.00 mA 10.0 to 100.0 mA 100 to 1000 mA 0.20 to 35 A	0.001 mA 0.01 mA 0.1 mA 1 mA 10 mA	± 2% ± 0.05 mA ± 2% ± 0.03 mA ± 2% ± 0.3 mA ± 2% ± 3 mA ± 2% ± 30 mA
Jaw Size	35mm		



The unit will measure the earth/neutral loop Z_{N+E} directly from the conductor on the earth spike

Ordering Information

Part No: **T5637**

The unit comes in a carrying box, with batteries installed, user manual and calibration resistance plate.

Batteries: 1 x 9V 6LR61
Size: L276 x W100 x T47mm
Weight: 750g

TA3000 Flexible Clamp Adaptor - 3000A AC

Features

- Current Ranges 300A, 3000A
- Output 300mV or 1 V
- Input Protection ≤ 600V
- Minimum Bending dia. 35 mm 50/60 Hz
- Wide Bandwidth, Low Phase Shift
- Low Battery Indication

Feature	Range
AC Current	30 - 300A 300 - 3000A
Output	1mV1A or 3.333mV 0.1mV/1A or 0.333/1A
Length	610mm

Ordering Information

Part No: **TA3000**

Each unit comes with internal leads, batteries & monitor.

AC/DC Clamp Adaptor & AC Power Clamp

T202 Digital Clamp Adaptor - 2000A AC/DC for DMM's with mV Range

The T202 current clamp meter is a transducer which will allow your multimeter to measure electrical current up to 1500 amps AC or 2000 amps DC, with a frequency response up to 400Hz. For DC measurement the unit is clamped in the correct direction on the conductor, using the + (Positive) and the - (Negative) on the jaws.

Features

- Range from 200A to 2000A AC/DC
- Hall Effect Sensor for DC Amps Measurement
- Effective Readout on to Digital Multimeter
- Data Logging Capability
- High Accuracy
- Auto Zero
- Low Battery LED Red Light Indicator

Compliance and Safety

Safety: Meets EN61010-1 CAT II 1000V & EN61012032
EMC: Meets EN89/336EEC and 93/86EEC
Overload Protection: 2000A - 60 seconds maximum

Feature	Range	Accuracy
AC Current	1500A	±3.5% + 3A
DC Current	2000A	±3.5% + 3A
Output	1mV/1A	
Jaw size	57mm	

Ordering Information

Part No: **T202**
Each unit comes with integral test leads, batteries and instruction manual.
Battery: 1 x PP3 9V
Size: H244 x W100 x T35mm
Weight: 490g

TBM155 Power Clamp 1000A AC, True RMS

A family of unique power clamp meters that are feature packed, starting with a basic, then standard and a deluxe model to suit the users requirements.

Features

- IEC61010-2-032 CAT III 600V
- Voltage 6000 counts
  - Hz & Ω 9999 counts
  - Amp 4000 counts
- AutoVA™
- Power Factor
- Peak RMS Hold
- Update Rate Hz - 2/sec, V, A, Ω, temp. - 4/sec
- APO: Idle for 17 min (10µA consumption

TBM155 only

- Backlight
- Temperature
- THD%R (TBM155)

Feature	Range	Accuracy
AC/DC Voltage	600V	1.5% +5d
AC Current	40/400/1000A	2.5% +5d
Resistance	999.9Ω	1.0% +6d
Power kVA	0-600 kVA PF@.99-0.01	F - 51st 3.5% +6d
Frequency	5Hz to 500Hz	0.5% +4d
kW & kVAR	0.00~600.0kW 0.00~600.0kVAR	F - 51st 5.5% +6d
Temperature	-50° to 300°C	2%+3°C
Jaw Size	45mm	
TBM155	-58° to 572°F	2%+6°F
THD%-R	0% ~ 999.9%	F - 51st
TBM155	0% ~ 999.9%	5% +6d

Ordering Information

Part No:
TBM155 (True RMS)
Each unit comes in a gift box with operating manual, batteries installed, test leads, type-k thermocouple, and soft carry pouch.
Batteries: 2 x 1.5V AAA
Size: L224 x W78 x T40mm
Weight: 224g

Optional

Software and Interface Cable
Part No: **TBR13X**
For replacement test leads order AL04
Please note: **BM157** available as order only

CAT III 500V

T1800 - General Purpose Analogue Insulation Tester 250,500 & 1000V

INSTRUCTION FOR ANALOG INSULATION TESTER
WARNING
IF THE " LIVE CIRCUIT " TEST INDICATOR LIGHTS UP AT THIS POINT , DO NOT OPERATE THE TEST BUTTON ; REMOVE ALLIGATOR TEST LEADS FROM CIRCUIT AND DISCONNECT ALL POWER FROM CIRCUIT UNDER TEST.
CONTINUITY
LOCK
CABAC
INSULATION-CONTINUITY TESTER

NEEDLE INDICATOR ADJUSTMENT

ANALOGUE DISPLAY
0-2000$\mu\Omega$

VOLTAGE DETECTION
Warning indication

PUSH DOWN BUTTON
with lock

RANGE SELECTION LINE VOLTAGE AC (40-600VAC)
Low Ω (0 to 50 Ω)
High Ω (250, 500 & 1000V)

REMOVABLE LID

CROWBAR PROTECTION AUTOMATIC DISCHARGE

LEAD COMPARTMENT

FOLDING HANDLE

COMPACT RUGGED CASE WITH EASY STORAGE COMPARTMENT

FEATURE	RANGE	ACCURACY
Insulation	250V DC - 0 to 50MΩ& 100 500V DC - 0 to 100MΩ & 200 1000V DC - 0 to 200MΩ & 400	± 5% of F.S
Continuity	0 to 50Ω	± 5% of F.S
AC Voltage	40 to 600V AC (40 to 1000Hz)	± 2.5 % of F.S.

COMPLIANCE AND SAFETY

IEC61010 CAT III 500V, Pollution Degree 2, CE

ORDERING INFORMATION

Part No: **T1800**
The unit comes in a compact, rugged case with batteries, spare fuse, leads & crocodile clips, manual and shoulder strap.
Batteries: 8 x 1.5V AA
Fuse: 1A/250V 5 x 20
Size: L170 x W165 x T92mm
Weight: 970 g with Batteries
For replacement test leads order AL24.

CAT III 500V

T2732 - Professional Analogue Insulation Tester 250, 500 & 1000V

EXTENDED 2YEARS WARRANTY

HOUSING
Compact rugged housing with soft rubber boot

STRAPS FIXED TO STUDS
on rubber boot for easy to use position during use

BATTERY INDICATION

NEEDLE INDICATOR ADJUSTMENT

SELECTOR SWITCH
High Ω (250, 500 & 1000V)
Low Ω (0-3Ω & 0-500Ω)
AC Voltage (0-600V)
Colour coded

BATTERY TEST

CATIII 500V

ANALOGUE DISPLAY
Colour coded ranges

WARNING LIGHT
For live line voltage

PUSH DOWN BUTTON
(With lock)
(Default V measurement) if button not activated

ZERO ADJUSTMENT FOR LOW Ω

DEFAULT VOLTAGE MEASUREMENT
When test button not activated

FEATURE	RANGE	ACCURACY
Insulation	0 to 100MΩ (250V DC ± 10%) 0 to 200MΩ (500V DC ± 10%) 0 to 400MΩ (1000V DC ± 10%)	± 5% of full scale
Continuity	0 to 3Ω 0 to 500Ω 210 mA	±1.0% of full scale
AC Voltage	0 to 600V AC	± 3% of full scale
Voltage	90VDC, 70VAC for Visual Indication	
Warning	24V Buzzer	

*Refer to CABAC website cabac.com.au for terms and conditions on warranty.

ORDERING INFORMATION

Part No: **T2732**
The unit comes in a rubber holder with batteries, spare fuse, leads & crocodile clips, manual and shoulder strap.
Batteries: 6 x 1.5V AA
Fuse: 0.5A (5 x 20mm)
Size: L205 x W90 x T55mm
Weight: 540g with Batteries
For replacement test leads order AL24.

CAT III 500V

EXTENDED 2YEARS WARRANTY

T2751 - Digital Insulation Tester 250, 500 & 1000V

HOUSING
Compact rugged housing with soft rubber boot

STRAPS FIXED TO STUDS
on rubber boot for easy to use position during use

WARNING FOR LIVE LINE VOLTAGE

DATA HOLD
Freezes display

COLOUR CODED

AUTO POWER OFF

CAT III 500V

DIGITAL DISPLAY
Large digits at least one decimal point e.g. 1.0μΩ on 1000V

POWER ON INDICATION

PUSH BUTTON WITH LOCK
Timer 3 to 5min

ZERO ADJUST FOR LOW Ω

SELECTOR SWITCH
AC V (0-600V)
High Ω (250, 500 & 1000V)
Low Ω (20, 200 & 200 Ω)

FEATURE	RANGE	ACCURACY
Insulation	0 to 20MΩ (250V DC ± 10%)	± 1.5% ± 5d
	0 to 200MΩ (500V DC ± 10%)	± 2.5% ± 3d
	0 to 2000MΩ (1000V DC ± 10%)	± 5½ ± 5d
Continuity	20/ 200/ 2000Ω	± 1.5% + 3d
AC Voltage	0 to 600V AC; 40 –120Hz	± 1.5% ± 3d
Voltage	90V DC, 70V AC for Visual Indication,	
Warning	24V for Buzzer	

ORDERING INFORMATION
Part No: **T2751**
The unit comes in a soft pouch with holster, batteries, spare fuse, leads & crocodile clips, manual and shoulder strap.
Batteries: 6 x 1.5 V AA
Fuse: 0.5 A (5 x 20mm)
Size: L200 x W85 x T55mm
Weight: 1380g with Batteries
For replacement test leads order AL24.

*Refer to CABAC website cabac.com.au for terms and conditions on warranty.

Digital Insulation Testers

C5203 Digital Bargraph Insulation Tester

The C5203 insulation tester has test voltages of 50, 100, 250, 500 & 1000V DC. It features a timer providing DAR and PI calculations, detects live circuits and compares readings. The multifunction display indicates dual readings and the digital bargraph is excellent for quick readings.

Features.

- 3¾ digit, LCD
- CATIII 1000V, CAT IV 600V
- Insulation test 0.01MΩ to 10.00GΩ
- Insulation test at 50,100, 250, 500 & 1000V
- DAR, PI and timer
- Live circuit detection ACV & DCV
- Insulation test ≤ 1.8mA
- Voltage Measurement 750 VAC & 1000VDC
- Backlight LCD
- Continuity testing
- Data Hold
- Low Battery Indication
- Test Data Memory for 20 readings

Safety and Compliance
IEC61010-1 CATIII 1000V. C-tick

Features	Range	Accuracy
Voltage		
DC Voltage	660m/6.6/66/660/1000V	± 0.5% ± 5d
AC Voltage	660m/6.6/66/660/750V	± 1.5% ± 5d
Continuity		
Resistance	0.01Ω to 200Ω	± 0.5% ± 5d
Insulation Tester	1.8 mA nominal output	
50V, 100V, 250V, 500V	0-50,100,250,500 MΩ	± 3% ± 20d
1000V	1-5GΩ & 5-10GΩ	5% ± 0.1GΩ & 10% ± 0.2GΩ

Ordering Information:
Part no: **C5203**
Each unit comes in a gift box with operating manual, soft carry bag, batteries and test lead accessories.
Battery: 6 x AA LR6 Alkaline
Size: 180(L) ×140(W) × 65(T) mm.
Weight: 900 g including Holster

C5208 Insulation Testing Digital Multimeter

The C5208 is an excellent option for an maintenance electrician who requires a general purpose multimeter with the option to test insulation in low voltage installations. The insulation feature can be set to test at voltage 50, 100, 250, 500 & 1000V. This feature has the option to display DAR and PI, which can be useful in plant maintenance. The has an excellent safety rating of CAT III 1000V for voltage and current measurement

Features.

- 3 ¾ digit, 6600 Count LCD
- CATIII 1000V
- Insulation test 0.01MΩ to 2GΩ
- Insulation test at 50,100, 250, 500 & 1000V
- DAR, PI and timer
- Live circuit detection
- Backlight LCD
- Continuity & diode check
- Data Hold
- Max, min, avg value, records most recent 100 readings
- Low Pass Filter for Voltage measurement.
- Temperature Type- k Thermocouple

Safety and Compliance
IEC61010-1 CATIII 1000V. C-tick

Feature	Range	Accuracy
DMM		
DC Voltage	660m/6.6/66/660/1000V	± 0.2% ± 5d
AC Voltage	660m/6.6/66/660/750V	± 2% ± 3d
DC Current	60m/400mA	± 0.3% ± 5d
AC Current	60m/400mA	± 1.5% ± 30d
Resistance	660Ω//66/660kΩ/6.6MΩ	± 12% ± 5d
	66MΩ	± 2% ± 20d
Capacitance	6.6/66/660n/6.6/66/660µ/6.6/66mF	± 3% ± 20d
Temperature	-30° to 1000° C	
Insulation Tester		
50V	0-50 MΩ	± 3% ± 5d (5% ± 5d for 0.5GΩ to 2GΩ)
100V	0-100 MΩ	
250V	0-250 MΩ	
500V	0-500 MΩ	
1000V	0-2.0 GΩ	

Ordering Information:
Part no: **C5208**
Each unit comes in a gift box with operating manual, soft carry bag, batteries, thermocouple, Multifunction socket, crocodile clips and "4 mm lantern" test leads.
Battery: 4 x AA LR6
Size: L205 × W102× T58mm
Weight: 400g including Holster

High Voltage Insulation Testers 10kV

TIN6A Insulation Tester 500V & 10kV

Industrial insulation testers are robust, heavy duty units which test insulation at various high voltages. The TIN6A is an analogue battery powered insulation tester designed for harsh environments and is an analogue version of the TIN6D. It is battery powered, consuming very low power and capable of 20 hours of continuous operation at maximum load. These battery powered units are used for low energy requirements such as switchboards, motors and low capacitance applications. This range has built-in Internal Guard Circuitry to eliminate errors due to surface current creepage. The operation is controlled by a microprocessor giving visual and audible indications and warnings, to alert test engineers to the status and presence of dangerous voltages.

Features

- Analogue Display
- Test at 5kV and 10kV
- Live Line Warning Beeper
- Auto-Discharge
- Low Battery Indication
- Crowbar Protection
- Heavy Duty Case

Compliance and Safety
IEC61010-1 CAT III 600V

Feature	Range	Accuracy
Test Voltages	5000V: Lower - 0-5GΩ Upper - 2MΩ to 200GΩ 10,000V: Lower - 0-10GΩ Upper - 2MΩ to 400GΩ	± 5% full scale
Live Warning	> 500V AC	

Ordering Information
Part No: **TIN6A**
The unit comes in a compact rugged case with batteries, leads and crocodile clips & manual.
Test leads: AL53 High Voltage test lead
Batteries: 8 x 1.5V C Alkaline
Size: L330 x W260 x T160mm
Weight: 3.6kg

TIN6D Insulation Tester 500V - 10kV

Industrial insulation testers are robust, heavy-duty units which test insulation at various high voltages. They are designed to read accurately in harsh environments. This instrument is battery powered, consuming very low power and capable of 20 hours of continuous operation at maximum load. The series has many advanced features, for example voltage decay, test time and external voltage warning. The test information is displayed on the 2 by 20 line LCD after the test, so the results can be recorded easily. The meters have a digital Bargraph showing DC output voltage and will indicate discharge. The unit will auto discharge and when discharged show a "HOLD" message on the display.

The meter is factory calibrated to the highest international standards and digitally saved into a non-volatile memory. The meter retains its ultra-precise calibration indefinitely. The latest EEPROM technology is used to calibrate and there are no physical adjustments. This unit has built-in Internal Guard Circuitry to eliminate errors due to surface current creepage.

The operation is controlled by a microprocessor giving visual and audible indications and warnings to alert test engineers to the status and presence of dangerous voltages. Current limiting circuitry protects insulation being tested against "over-power". This also protects the test engineer against accidental shocks from the "live" test probes.

Features

- Timer
- Live Circuit Warning
- Digital Display
- Electronic Operation
- Robust Carry Case
- Auto Discharge

Compliance and Safety
IEC1010-1 CAT III 600V

Feature	Range	Accuracy
Test Voltage	500 to 10,000V Variable in 500V Increments	± 3% ± 1d F.S.
Insulation Resistance	60GΩ - 500GΩ	< 2/5 of range ± 5% ± 1d > 2/5 of range ± 10% ± 1d
Live Warning	>500V AC	

Ordering Information
Part No: **TIN6D**
The unit comes in a compact rugged case with batteries, leads and crocodile clips & manual.
Test Leads: AL53 High Voltage
Batteries: 8 x AA Alkaline
Size: L330 x W260 x T160mm
Weight: 3.6kg

CAT IV 600V

C5215 - High Voltage Digital Insulation Tester 500V to 5kV

INTERNAL BATTERY
Simply rechargeable batteries
5% accuracy

POLARISATION INDEX
Dielectric absorption
ratio (PI & DAR)

LARGE DISPLAY
Detailed display - Insulation
resistance up to 5TΩ

TEMPERATURE MEASUREMENT
Leakage current

STEP VOLTAGE FOR INSTALLER TEST
250V, 500Vm 1Kv, 215kV & 5kV
step of 100V & full adjustment

CAT IV 600V

SHORT CIRCUIT CURRENT
Up to 3mmA

AUTOMATIC DISCHARGE

INTERNAL MEMORY
Data storage & USB2
to PC communication

RUGGED HOUSING
Fully sealed when closed.
Complete C5215 in soft bag.

TIME SWITCH & AUTO CALCULATE
PI & DAR

FEATURE	RANGE	ACCURACY
Test Voltage	25VDC to 5kVDC in steps of 25V	± 10GR
Resistance	0.01MΩ to 5TΩ	5% ± 5d
Voltage	DC 50V - 1000V AC 50V - 750V	5% ± 5d
Temperature	-10°C to 70°C	± 1.5°C

COMPLIANCE AND SAFETY

Conforms to IEC61010-1/1992 Amendment 2 CATIV 600V

ORDERING INFORMATION

Part No: C5215

The unit comes in soft case with manual, test leads, croc clips, batteries & USB interface cable.
Batteries: Internal Rechargeable 12V to 2.3A
Size: L284 x W230 x T125mm
Weight: 2.5Kg

Optional Accessories:

C5215BATTERYP	Rechargeable battery pack
60-51-MS5215-001	Power supply

Installation Tester & Power Point Tester

INSTALTESTKIT – Complete Installation Test Kit for AS/NZ 3000

The INSTALTESTKIT is a complete system for testing installations. It consists installation tester MI3125, a resistor box and accessories packed in a rugged thermoplastic case for easy storage. The MI3125 offers testing according to AS/NZ 3000 for earth continuity, insulation resistance, polarity, fault and line loop impedance and RCD testing. It features an ingenious socket outlet polarity test using a resistor box giving a single push button Pass/Fail result without the use of trailing leads.

Features

- IEC61010 CAT III 600V, CATIV 300V
- Multifunction 128x64 dot matrix LCD
- Backlight Display
- Tests
  1. Resistance – Polarity – innovative circuit polarity test
  2. Resistance - Earth Bond
  3. V Test - Voltage True RMS
  4. With V Test - Frequency
  5. With V Test - Phase rotation
  6. Insulation Resistance @ 50, 100V 250, 500 & 1000V
  7. Fault Loop and Line Loop
  8. Loop testing without RCD tripping
  9. Prospective Short Circuit Current (PSC)
  10. RCD testing
  11. Pre-programmed testing

Feature	Range	
AC Voltage True RMS	0 to 550V AC 0 to 500 Hz	+ 2% ± 2d
Resistance (continuity)	0 to 1999 Ω	0 to 1999 Ω
Insulation resistance		
50V, 100V, 250V	0 to 19.99 MΩ (higher readings possible)	5% ± 3d
500V, 1000V	0 to 19.99 MΩ	
Insulation Test Voltage	0 to 1200 V	± 3% ± 3d
Resistance (Low Ohms)	0 to 1999 Ω	5% of reading
Socket Test (Polarity)	0 to 1999 Ω	5% of reading
Loop Impedance @ 6.5A	0 to 99.9 Ω	5% ± 5d*
PSC	0 .01 A to 32kA	Depends on Loop Measurement
RCD Test @ 0° or 180°	10, 30, 100, 300, 500, & 1000 mA	± 5%
50 to 264V AC (45 to 65 Hz)	0 to 40 ms	± 1ms
	To timeout	± 3ms
Phase rotation	Sequence 1,2,3 or 3,2,1	

Note: * - no-trip RCD loop tests R, XL values are indicative.

Safety and Compliance
IEC61010-1 CATIII 600V. CAT IV 300V, C-tick

Ordering Information:
CABAC part no: **INSTALTESTKIT**
The kit is supplied in a rugged thermoplastic waterproof case with the MI3125 tester, resistor box, instruction manual, shoulder strap and leads.
Batteries: 6 x 1.5 rechargeable batteries
Dimensions: MI3125 L140 × W80 × T23mm.
Case: L465 × W360 × T170mm
Weight: MI3125 – 1 kg excluding batteries.

TEL1TLV2 Power Point Tester

A handy low-cost unit that tests a power outlet for polarity, earth connection, incorrect wiring and tests earth leakage circuit breakers. To use the unit, simply plug in and compare the neon lights on the front panel with the diagram on the front of the instrument, and it will test the wiring on the power point. To test an earth leakage circuit breaker, first check the wiring as above, then turn the rotary switch slowly through the range of mA settings. The RCD should trip before the maximum setting of 35mA is reached.

Features

- Low cost for a big result
- Very simple and easy to use
- Rugged and compact design
- Identifies six wiring conditions
- Integral plug fits straight into the socket
- Push button RCD trip test

Feature	Range
Voltage Range	230V±10%
Test Conditions	Correct, Active/Neutral Reverse Active/Earth Reverse, No Neutral Live Earth, No Earth No Active
ELCB Test	30mA Trip 10, 15, 20, 25, 30, 35mA
Quiescent Current	1.75mA

Compliance and Safety
Safety: Sealed unit, with 3 pin plug.
No exposed test leads.
EMC: Meets EN55022, CE, C√

Ordering Information
Part No: **TEL1TLV2**
Each unit comes complete on a slide blister with instructions.

CAT III 600V

EXTENDED 2YEARS WARRANTY

T2712EL - Digital RCD Tester 240V Standard Professional Range

CAT III 600V

COMPACT RUGGED CASE
With soft rubber boot for increased protection

MENU
Microprocessor driven menu

DIGITAL DISPLAY
Indicates phase angle
Time to trip
% adjustmenst for voltage change to 240VAC

INCORRECT WIRING WARNING INDICATION
Indicates correct wiring

POWER ON INDICATION

BATTERY INDICATOR

ON/OFF POWER BUTTON

TEST ANGLE SELECTION
0° or 180°

SELECTOR SWITCH
For current leakage 3 to 500mA

FEATURE	RANGE
System Voltage	240V
Trip Settings	3/5/10/15/20/30/50/100
	150/250/300/500mA
Disconnection Time	0 - 2.999 Seconds
Time Resolution	1mS
Phase Start Selection	1 - 180°
Operating Temperature	-5 to 45°C

*Refer to CABAC website cabac.com.au for terms and conditions on warranty.

ORDERING INFORMATION

Part No: T2712EL
Each unit is supplied in a soft pouch with a rubber holster, shoulder strap, spare fuse, alligator clips, 10A plug leads, test leads, batteries and instruction manual.
Batteries: 6 x AA batteries (included)
Size: L200 x W85 x T55mm
Weight: 540g

RCD Test Instruments

Digital RCD Tester - 110V to 450V

The AEL28 is an industrial RCD tester.

Features

- Operating voltage 100-450V line to earth
- Rated current 999mA at 317V AC / 50Hz
- Checks ELCB trip time and trip current (sensitivity)
- APO
- Data hold function
- Accurate digital readout of disconnection time/sensitivity
- Auto ranging
- Micro processed controlled
- Phase angle selection (0 / 180°)

Compliance and Safety

Safety: Meets IEC 61010 CAT III, CE C√
EMC: Meets EN55011
Overload protection:
Built-in transient protection

Feature	Range
Trip Current Range	0 - 999mA
Trip Current Resolution	1mA
Phase Angle Setting	0° & 180° Selectable
Timer Max	99.999S
Timer Resolution	1ms
Operating Voltage	100 – 450V
Operating: Temperature	10° to 40°
Humidity	80% Max

Ordering Information

Part No: **AEL28**
Each unit comes with test leads in a bag, shoulder strap, operation manual and batteries.
Batteries: 8 x AA 1.5V
Size: L170 x W120 x T95mm
Weight: 625g

Three Phase RCD Tester

The TEL11 is suitable for heavy industrial use.

Features

- Operating voltage 100V to 550V line to line.
- Phase sequence
- Checks RCD trip time and trip current (sensitivity)
- Rechargeable battery
- Auto off
- Auto ranging
- Phase angle selection (0º/180ºC)
- Impact resistant enclosure

Compliance and Safety

IEC61010, CE CATIII - 120VAC

Feature	Range	Accuracy
Trip Current Range	0 - 999mA	1%rdg+1mA+2d
Trip Current Resolution	1mA ± 1	
Timer Max	99.999S	1%rdg 1d
Timer Resolution	1mA	± 5%
Operating Voltage	100-550V phase	3%rdg 1d
Operating Temperature	10 to 40ºC	
Humidity	80% Max Relative Humidity	

Ordering Information

Part No: **TEL11**
The unit is a rugged Polycarbonate/ABS case, with test leads, manual and battery charger.
Batteries: Built-in Rechargeable
Fuse: 1 X 50 mA Potential Fuse and 1 X 2 A 250V Slow Blow
Size: L330 x W260 x T160mm
Weight: 4.4kg

CAT III 600V

EXTENDED 2YEARS WARRANTY

T2726 -Electrical Network Analyser (Fault Loop Impedance)

MAX AC 270V
MULTI-VOLTAGE (80-270Vac @ 50Hz)
AUTO POWER OFF
CABAC
T2726
ON / TEST
All protection devices must be by-passed with very low resistance leads.
ONLY FOR THE DURATION OF THE TEST.
REMOVE THE BY-PASSING LEADS FROM THE G.F.C.I.R.C.D. or E.L.C.B. AS SOON AS THE TEST RESULTS ARE AVAILABLE
LOOP / PSC / NETWORK ANALYZER

CAT III 600V

DIGITAL DISPLAY
Automatic test
Microprocessor controlled display

STRAPS FIXED TO STUDS
on rubber boot for easy to use position during use

DISPLAY SEQUENCE
Voltage
L-N
L-E
N-E
Impedance
L-N
L-E
N-E
Plus Transformer & line
Neutral to MEN
Earth to MEN
PSC (Prospective Short Current)
L-N
L-E (fault loop)
N-E

CORRECT WIRING INDICATION
Indicates correct wiring

INCORRECT WIRING INDICATION
Indicates incorrect wiring

ONE PUSH BUTTON ACTIVATION
Menu driven microprocessor controlled

UP RIGHT STAND AT REAR

HOUSING RUGGED CASING
With soft rubber boot for overall impact protection

FEATURE	RANGE	ACCURACY
Voltage	50 to 275V AC	±1% (210-250V) ±3% otherwise
Loop Impedance	0.03 to 2000Ω	±2% up to 50Ω 3% 50 to 500Ω 15% 500W plus
Prospective Short Circuit Current		0-6kA ±15% depends on the loop impedance

*Refer to CABAC website cabac.com.au for terms and conditions on warranty.

ORDERING INFORMATION

Part No: T2726
The unit is supplied with soft pouch, batteries, fuse, leads and crocodile clips, 10A Australian plug lead, manual, rubber holster and shoulder strap.
Batteries: 6 x 1.5V size AA
Size: L205 x W90 x T55mm
Weight: 0.5kg with batteries
For replacement test leads order TEL-EL or AL30RBGKIT.

Cable Locators

C6818 Cable Locator and Circuit Finder

The C6818 is a useful instrument for locating cables and circuits in concrete floors and inside walls.
The instrument consists of a transmitter and receiver, both having multi function display LCDs.
It features a non-contact voltage finder to assist with tracing live conductors.
Cables can be detected with or without mains supply. It is suitable for data
or communication circuits and locating circuit breakers and fuses in a power circuits.
Another use is locating breaks in conductors for example in under floor heating.

Features

- CATIII 300V
- LCDs displays digital readout and bargraphs
- Three strength level options in transmitter
- Adjustable sensitivity for receiver
- Multifunction Displays (LCD)
- LED flashlight on both units.
- Back Light for Receiver
- Auto Power Off (APO)
- NCV Detector
- Suitable for any conductor tracing
- Live circuit maximum receiver voltage: 400V AC or DC
- Output signal 125kHz

Compliance and Safety
IEC61010 CATIII 300V. C-tick

RECEIVER

Feature	Tracking Depth
Cable Tracing	Single Pole 0-2 m Dual pole 0-0.5m Single Loop Line < 2.5m
NCV Detection (UAC mode)	10 to 600V AC

TRANSMITTER

Output Signal	125 kHz
Voltage Detection	12 to 400 V AC or DC (50 to 60 Hz) or DC

Note: Tracking depth may vary depending on material and specific applications.

Ordering Information
Part No: **C6818**
Transmitter & receiver are supplied in a gift box with operating manual, soft carry bag, batteries, test leads, crocodile clips, pluggable probes and an earth spike.
Batteries: Transmitter: 1 x 9V 6LR61
Receiver: 6 x 1.5 AAA, IEC LR03
Size: Transmitter: L190 x W89 x T42.5mm
Receiver: L241.5 x W78 x T38.5mm
Weight: Transmitter: 420g
Receiver: 350g

C5902 Circuit Breaker Finder

The C5902 is an excellent circuit breaker finder for use with "live" 10/15A power outlets.
It consists of a hand held tracer and a transmitter that plugs into a power outlet.
The transmitter has an option to test polarity in the power outlet. A LED flashlight is featured in the receiver. The receiver will identify the circuit breaker with the strongest signal (connected to the transmitter) after running its sensor three times over a line of circuit breakers.

Features

- CATII 600V
- Automatic sensing
- LED flashlight on Receiver
- Transmitter has built in 10A AS/NZ plug
- Visual and Audible indicators
- Low battery warning
- Checks Wiring in socket outlet:
  1. missing earth/neutral/active
  2. active/earth reversed
  3. active neutral reversed
  4. Indicates correct polarity
  5. It cannot earth/neutral reversed.

Compliance and Safety
IEC61010 CATII 600V. C-tick

Ordering Information
Part No: **C5902**
Supplied in a oyster hang cell pack with backing card, installed battery, transmitter (with built in10A AS/NZ plug) and receiver.
Batteries: Transmitter: none
Receiver: 1 x 9V
Size: Transmitter: L68 x W60 x T60mm
Receiver: L200 x W40 x T48mm
Weight: Transmitter: 60g
Receiver: 160g

Cable Tracers

C183 Data Cable Tracer

The C183 consists of a receiver probe and tester/generator module. The C183 can trace cables, test continuity and phone lines as well other handy features as listed below.

Features.

Probe:

- Pick up any tone generator
- Battery life ±100 hrs
- Headset jack in probe
- Sensitivity control
- Operating Frequency 1Hz to 12kHz
- Pickup distance < 50cm

Compliance and Safety
C-tick

Tester:

- Audible & visual indications
- Continuity and polarity
- Tone select – fast or slow
- Polarity of phone line
- Resistance of voltage free components
- Test capacitors
- Test transistors
- ON/OFF switch for TEST=PHONE functions
- Checks AC Voltages Max 100V
- Tone – square wave 1kHz ± 15%
- Tone generator over voltage – 80 VDC
- Phone tester:

1. U Test < 4.75 V
2. I Test < 2 mA
3. Resistance – 0 – 2 MΩ

Ordering Information
Part No: C183

The C183 consists of a probe and tester with accessories. It is supplied in a gift box with operating manual, soft carry bag, batteries and test leads.

Batteries: Probe: 6 x 1.5V AA
Tester: 1 x 9 V 6F22

Dimensions: Probe: L260× W92× T55mm.
Tester: L260× W92× T55mm

Weight: Probe 125g
Tester 320g

Not to be used on live circuits unless telephone/communications cable. Max. 110V

T180 Cable Tracer Tone Generator

Amplifier Probe

- The Amplifier Probe is designed to identify and trace wires or cables within a group, without damaging the insulation
- Works with any Tone Generator to identify wires
- Volume control for increased sensitivity and adjustable to suit work environment
- Recessed on/off button prevents battery drain
- Power supply is in any 9V battery with a life of approximately 100 hours
- A plug receptacle designed for head set or hand set

Tone Generator

- Tone Generator is a great tool for locating and identifying cable pairs or individual conductors
- Besides providing tone generator, also serves as a continuity and polarity tester
- Test results are displayed by a three coloured LED

Compliance and Safety
EN61326-1, EN55011, EN61000-4-2, EN61000-4-3, CE

Ordering Information
Part No: T180

A transmitter and receiver in a carry case supplied with a battery and operating manual.
Battery: 2 x 6F22 9V

Dimensions
Receiver: L56 x W25 x T270mm
Transmitter: L58 x W34 x T62mm

Weight
250g /set

Do not use on Live Circuits

Earth Resistance Testers

T2705 Analogue 3 Wire Earth Tester

The T2705 analogue earth resistance tester is a professional instrument that measures earth resistance between the instruments earth spikes and an earth electrode of a building. It is suitable for the testing of single earth electrodes such as lightning conductors and small earthing systems. The resistance of conductors for continuity can also be measured. The T2705 offers a two terminal option with reduced accuracy for quick indications of earth resistance. Earth resistance can be measured directly up to 1000Ω.

Features

- Measures earth voltage up to 30V AC
- Show if auxiliary spikes are within range
- Two or three terminal measurement
- Easy to read analogue display
- Factory calibration performed with supplied leads
- Lightweight
- Robust and compact
- Battery check
- Simple push-button operation

Compliance and Safety

IEC61010 CAT III 30V. EN61326: 1997+A1: 1998+A2: 2001 EN55011: 1998 EN61000-3-2: 2000, CE, C√

Feature	Range	Accuracy
Earth Resistance	0-1000Ω	± 3% FS
Output	± 2 mA@820Hz	
Earth Voltage	0-30V AC 40 - 500Hz	± 2.5% FS

Ordering Information

Part No: **T2705**

Unit comes in a blow-moulded box with batteries, leads with crocodile clips (red 15m, yellow 10m and green 5m), 2 earth spikes, and operating manual.
Batteries: 6 x 1.5V size AA
Size: L205 x W90 x T55mm
Weight: 514 kg with batteries
For replacement test leads order AL-4WER.

T2720 Digital 3 Wire Earth Tester

The T2720 is a professional instrument that is rugged and o-ring sealed with built-in protection for outdoor use. The instrument is suitable for testing of single earth electrodes such as lightning conductors and other small earthing systems. Continuity of conductors and conduit coupling can also be measured. There is an option to make two terminal measurements, but with reduced accuracy.

Features

- 3½ digit 1999 count LCD
- LED indication for correct electrode range
- Measures to 0.01Ω
- Auto power off
- Data hold
- Two or three terminal measurement
- Measures earth voltage to 200V
- Open loop indication
- Low battery indication
- O-ring sealed case
- Over voltage protection
- Colour coded test leads
- Crowbar protected

Compliance and Safety

IEC61010 CAT III 200V, EN55011: 1998, EN61000-3-2: 1995+A1: 1998+A2: 1998+A14: 2000 EN61000-3-3: 1995, CE, C√

Feature	Range	Accuracy
Earth Resistance	0 to 19.99Ω steps of 0.01Ω	2.0% ±2d
	0 to 199.9Ω steps of 0.1Ω	or ±0.1Ω
	0 to 1999Ω steps of 1Ω	which ever is greater
Earth Voltage AC	0 to 199.9V (sine 40 to 500 Hz)	
Test Current Output	2mA @ 820 Hz	
Voltage Output	0 to 80V	

Ordering Information

Part No: **T2720**

The unit comes in a blow-moulded box with batteries, leads with crocodile clips (red 15m, yellow 10m, green 5m), manual, and 2 earth spikes.
Batteries: 6 x 1.5V size AA
Size: L205 x W90 x T55mm
Weight: 572g with batteries
For replacement test leads order AL-4WER.

Earth Resistance Testers & Test Tags

C2302 Digital Earth Resistance Tester

The C2302 is a robust and well designed two and three pole earth resistance tester. It features easy to use controls and SN excellent display which includes an analogue bargraph.

Features.

- Multi function LCD with bargraph
- CATIII 300V
- Two and three pole Test Modes
- Test output 800 Hz ± 3 mA
- Min/Max/Avg/Rel recording
- Data Memory
- Backlight
- Tests earth voltage

Safety and Compliance:
IEC61010-1 CATIII 300V. C-tick

Feature	Range	Accuracy
Earth Resistance	0 - 29.99	± 2% ± 6d
	30 – 99.9	± 3% ± 3d
	100 – 999	± 3% ± 3d
	1k – 4k	± 3% ± 3d
Earth Voltage	0V – 200V (50 to 60 Hz)	± 1% ± 5d
Test Leads Dimensions	Red = 15m; Green = 10m & Black = 5m	

Ordering Information:
Part No: **C2302**
Each unit comes in a gift box, soft carry bag, operating manual, batteries, test leads & two earth spikes.
Batteries: 6 x 1.5V AA
Dimensions: L330× W125 × T265mm.
Weight: 3.45 kg

Appliance Test Tag Kits All States

- Application Low To Medium Traffic Areas
- Self Laminating
- Tear Resistant Material
- In accordance to AS/NZS3760 and AS/NZS3012 standards
- Quantity 100 tags per pack

Appliance Test Tag Label & Pen Kit Contains:
All States (Except NSW) Test Colours:

- 15 x Red Tags (Jan To March); 15 x Green Tags (April To June);
- 15 x Blue Tags (July To September); 15 x Yellow Tags (October To December)
- 10 x Orange Tags (6 Monthly Jan-June); 10 x White Tags (6 Monthly July To Dec)
- 10 x Black Tags (Yearly); 10 x Fail Danger Tags
- 1 x Industrial Marker Pen

APTTK - Appliance Test Tag Kit

APTTK - Appliance Test Tag Kit (Except NSW)

Appliance Test Tag Label & Pen Kit Contains:
NSW TEST COLOURS:

- 20 x Red Tags (Jan/Sept); 20 x Blue Tags (Feb/July);
- 20 x Orange Tags(Mar/Nov); 10 x Green Tags (April/Aug);
- 10 x White Tags (May/Dec); 10 x Yellow Tags (June/Oct);
- 10 x Fail Danger Tags
- 1 x Industrial Marker Pen

APTTK-NSW
(Appliance Test Tag Kit NSW ONLY)

Individual Appliance Test Tag Labels:

- APTTRD - Red
- APTTBL - Blue
- APTTOR - Orange
- APTTGR - Green
- APTTWH - White
- APTTYL - Yellow
- APTTF - Failed
- APTTBK - Black

Note: 100 tags per pack

Appliance PAT & RCD Tester

EASYTESTMEGA EASYTEST MEGA PAT & RCD Tester

The Mega is a combination PAT & RCD tester with the option of a "run" test or an insulation test for testing equipment. It tests to the requirement of AS/NZ3760.

Features:
- Continuous "live" test to AS/NZS3760-2003
- Alternative insulation resistance 250V/500V testing
- Insulation resistance continuity check
- Microprocessor controlled
- Class 1 power - up earth leakage testing
- Class 2 power - up earth leakage testing
- Blacklight LCD display
- Simple PASS or FAIL indication
- Earth resistance testing
- Tests extensions leads and power boards
- Polarity testing
- RCD trip time testing
- Automatic RCD phase shift testing at 0º and 180º
- Portable RCD PAT testing
- Portable RCD testing without the need for an isolation transformer

Electrical Specifications:
Input supply = 240Vac 50Hz
Output power = 240Vac 10amp

Earth Resistance:
Voltage = 3 to 5Vdc
Current = 103mA +/- 1%
PASS/FAIL = 1 ohm +/- <5%

Earth Leakage:
Class1 PASS/FAIL = 5mA +/- <5%
Class2 PASS/FAIL = 1mA +/- <5%

RCD trip time:
No trip test = 13mA +/- <5%
Trip test = 30mA +/- <5%
Time accuracy = +/- 2 milliseconds

Insulation Resistance:
Continiuity test = 250Vdc +/- <10%
Continiuity PASS/FAIL = 900K +/-20%
250V test = 250Vdc +/- <10% @ 1M ohm
IR PASS/FAIL = 1M ohm +/- <5%
Current limit = < 1.5mA

Ordering Information
Part No: **EASYTESTMEGA**
The unit comes complete with:
Test probe, alligator clip, IEC adaptor lead, instructions on the back of the unit.

Dimensions:
Weight: 1.3kg
Size: L165x W170 x D55mm

EASYTESTRADIE EASYTEST MEGA PAT & RCD Tester

The Tradie is an easy to use PAT that will test equipment in a "run" mode. It tests to the requirements of AS/NZ53760.

Features:
- Continuous "live" test to AS/NZS3760-2003
- Class1 basic earth leakage test
- Class2 double insulated earth leakage test
- Earth Resistance test
- Isolation transformer is not required to test portable RCDs
- Lead polarity indication (leads & power boards)
- Mains polarity indication
- Isolation transformer is not required to test portable RCDs
- 30 mA RCD trip time testing with automatic application of RCD test currents
- Automatic RCD phase shift testing at 0˚ and 180˚
- Backlight display

Electrical Specifications:
Input supply = 240Vac 50Hz
Output power = 240Vac 10amp

Earth Resistance:
Voltage = 3 to 5Vdc
Current = 103mA +/- 1%
PASS/FAIL = 1 ohm +/- <5%

Earth Leakage:
Class1 PASS/FAIL = 5mA +/- <5%
Class2 PASS/FAIL = 1mA +/- <5%

RCD trip time:
No trip test = 13mA +/- <5%
Trip test = 30mA +/- <5%
Time accuracy = +/- 2 milliseconds

Ordering Information
Part No: **EASYTESTRADIE**
The unit comes complete with:
Test probe, alligator clip, IEC adaptor lead, instructions on the back of the unit & manual.

Dimensions:
Weight: 850g
Size: L160 x W105 x D55mm

Appliance Testers

The AlphaPat and SuperPatCG2 Appliance Tester (Single & 3 Phase)

The AlphaPat is a very powerful and lightweight portable appliance tester packaged for the Australian and New Zealand markets. Available in two versions i.e. the budget version AlphaPat or the complete package SuperPat offering varying features including the option of testing three phase appliances.

The SuperPat comes with an AlphaPat, vinyl label printer (customer logo programmable on request at extra cost), barcode scanner, RSR SimplyPATs Software, Clamp for Differential Earth Leakage testing (3 phase appliances) and accessory leads in a compact bag that gives you a complete appliance testing package for most applications.

AlfaPat

SupePatCG2

Features:

- Tests to AS/NZ3760-2003
- Single and 3 Phase Appliances
- PC Updatable Firmware
- Updatable Software
- Custom Testing
- Earth Bond Test
- Powered Leakage to Earth Test
- Load Testing
- Checks Installation Supply
- On-board Help Menu
- RFID and Bar Code Capable
- One year Warranty
- AlphaPat is Upgradeable SuperPat
- IP41
- Easy To Use with Auto Test Codes

SuperPatCG2 Only (Includes Printer)

- Package in Easy to Carry Custom Bag
- Bag is Water Resistant
- Printer attached (customer logo programmable)
- Accessories attached
- 7 Different Colour Tags
- Prints A "DANGER" Label for failed appliances
- Double Barcode Printing
- Fast and Reliable
- Visual Logging with Electrical Units of Measurement
- Comprehensive Software
- Autotest after Code is selected

Compliance and Safety

IEC61010 CAT II 300V (suitable for Appliance Testing), Double Insulation,

Ranges AlphaPat

Feature	Range	Accuracy
Earth Bond Test	0.00 to 19.99Ω @ 10 or 25 A AC	± 5% + 5d
Earth Screen Test	0.00 to 19.99 Ω @100mA to 20mA	± 5% + 5d
Insulation Test	0.00 to 19.99 MΩ	± 5% + 5d
Differential Leakage Test	0.00 to 19.99 mA	± 5% + 5d
Functional Test Current Power	 0.00 to 19.99A 0.00 to 3.69 kVA	 ± 5% + 3d
IEC Lead Test	Open, Short, Crossed @ 50V DC	N/A
Clamp Current Test	0.00 to 99.9 mA 100 mA to 19.99 A	± 10% + 5d ± 5%
RS 232 Interface	Baud Rate 9600	N/A
Memory	4 Mbit Data Flash Memory	N/A

Catalogue No PC4*	CG2*	Description
TSTCL	TSTCLCG2	Label Clear Vinyl Overlay
TSTRW	TSTRWCG2	Tough Tag - Red with White Strip
TSTBW	TSTBWCG2	Tough Tag - Blue with White Strip
TSTGW	TSTGWCG2	Tough Tag - Green with White Strip
TSTGYW	TSTGYWCG2	Tough Tag - Grey with White Strip
TSTOW	TSTOWCG2	Tough Tag - Orange with White Strip
TSTPW	TSTPWCG2	Tough Tag - Purple with White Strip
TSTW	TSTWCG2	Tough Tag - White
TSTYW	TSTYWCG2	Tough Tag - Yellow with White Strip
RB046	RB046CG2	Wax Resin Ribbon (110mm x 91mm B110A)

*PC4 refers to original printer in SuperPat
*CG2 is an updated printer for SuperPat

Ordering Information:

AlphaPat

The unit comes in a bag with manual, code list and cable accessories.

SuperPatCG2

The unit comes in a water resistant carry bag with printer, manual, code list and cable accessories
Both the units are factory tested and calibrated.

Power Supply:	230 V AC 50/60 Hz (+6% or -10%)
Size:	L265 x W110 x H185mm
Weight:	of AlphaPat 3.5 kg
	SuperPat 9.66 kg

Optional Accessory:

Labels for the SuperPat are available in rolls of 500

Appliance Testers

OPTIMAKIT - Seaward Optima Complete Test & Tag Kit

The OPTIMAKIT is a complete test and tag system with Bluetooth communications and includes printer, barcode reader and software. The Seaward Optima system is battery powered, light, uses Bluetooth communications and has no interconnection cables to the printer and barcode reader.
It is ideal for construction sites, industrial facilities such as factories or clean office environments.

- Multifunction LCD with backlight
- PASS/FAIL indication
- Very light weight and compact
- Wireless communications
- Handheld and battery Powered.
- Mains supply only for "RUN" test
- Useful for logging Risk Assessments.
- RCD testing
- Data Logging
- Downloading and Uploading to PC with PATGuard EliteII

Safety and Compliance: C-tick.

Ranges

Feature	Range	Accuracy
Earth Continuity		
Low Ohms	0 to 19.99Ω @ +200mA AC	
	PASS @ 1Ω, duration 2, 5, 10, 20, 30 seconds	± 5% ± 2d
Insulation Test	0.01 – 40MΩ @ 500V DC (+20%,-0), 2mA,	
	PASS@1 MΩ, duration 2, 5, 10, 20, 30 seconds	± 5% ± 2d
Class I Leakage Test	0.25 to 19.99mA @ ±230 V AC +10%/-15%, 10A max,	
	Class I = 5 mA duration 2, 5, 10, 20, 30 seconds	± 5% ± 5d
Class II Leakage Test	0 to 3.50mA @ ±230 V AC +10%/-15%,	
	Class II = 1 mA, duration 2, 5, 10, 20, 30 seconds	± 5% ± 5d
Earth Loop	1.0 199Ω non trip for 30mA RCD, duration 10 sec.	± 10% ± 2d
RCD Trip Time	20-2000ms @ ±230 V AC +10%/-15%, 30 mA RCD	± 2ms(0 to 40ms)
		± 8ms(41 to 300ms)
Voltage	20 – 300V with frequency display 50 or 60 Hz	± 10%
Polarity Test	L/N open circuit, L/N short circuit and crossed	
RCD Test	30mA at 0 or 180 Pass < 300ms	
Data Logging	User defined inspection routines	
Printer	Thermal direct @ 203 dpi.250 tag per roll in colours	
Software	PATGuard Elite II data base for platform XP, Vista & Windows 7	

Note: * - no trip RCD loop tests R, XL values are indicative.

Ordering Information:
CABAC part no. **OPTIMAKIT**
The kit is supplied in a rugged thermoplastic waterproof case with the Seaward Primetest 300 printer, barcode scanner, instruction manual and lead accessories. Basic training available on request.

Batteries: Optima 6 x 1.5 rechargeable batteries
Printer: Lithuim-ion rechargeable battery
Scanner: 2 x 1.5V AAA

Dimensions: OPTIMA L140× W80× H23mm
Case - L465× W360× H170mm

Weight: Primetest 300 –950 g excluding batteries.
Printer - 907g
Scanner - 50g
Case - 5.5kg

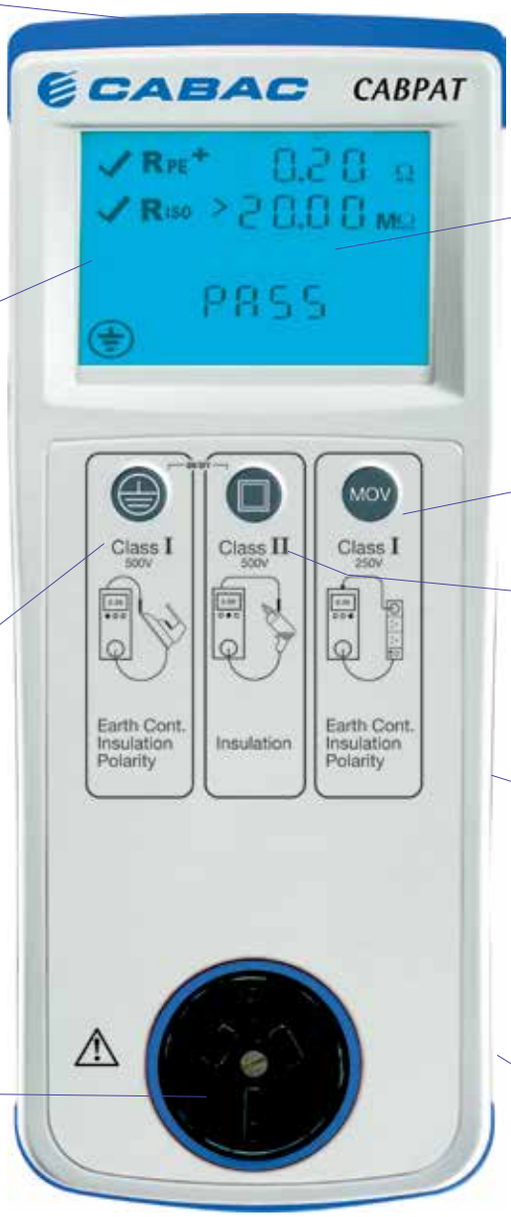
Part nos. for tag rolls:

OPT-WHITE	White
OPT-YELLOW	Yellow
OPT-GREEN	Green
OPT-ORANGE	Orange
OPT-BLUE	Blue
OPT-RED	Red
OPT-BURGUNDY	Burgundy
TSTCLCG2	Clear label (250 tags per roll)
TSTCL	Clear label (500 tags per roll)

OPT-WT

NEW

CABPAT - Battery Powered Portable Appliance Tester



IEC PLUG FOR
Testing LEADS & POWER BOARDS

TEST SEQUENCES
Single push button earth, insulation & polarity tests

CLASS I 500V
Tests appliances with earth connection

3 PIN 15A
Socket outlet for 10A and 15A appliances

LCD DISPLAY
Displays readings as PASS/FAIL result

CLASS I 250V
Tests appliances with earth connection and MOV surge protection

CLASS II
Double insulated appliances (without earth connection)

LIMIT ACCORDING TO AS/NZS 3760

BATTERY POWERED
No mains power required

FEATURE	RANGE	ACCURACY
Earth Continuity	0.05Ω to 19.99Ω @ 9V DC ± 200mA Pass < 1Ω	± 5% ± 2d
Insulation Test	0.5MΩ to 199.99 MΩ @ 250V or 500V < 2mA Pass > 1 MΩ	± 5% + 5d
Lead Polarity Tests	Live/Neutral checks for open circuit, short circuit & crossed	
Mains Outlet Voltage	196 to 253 VAC L/N, L/E & N/E voltage check.	

ORDERING INFORMATION

Part No. CABPAT

The CABPAT is supplied in a gift box with test leads, instruction manual and soft carry case.

Batteries: 6 x 1.5 AA Alkaline
Dimensions: L270 × W110 × D55mm.
Weight: 800g

The CABPAT is suitable for testing leads, powerboards and most appliances. For ease of use, a powered up or run test is omitted.

Phase Rotation Testers

C5900 Phase and Motor Rotation Indicator

Taking the guess out of what direction the motor will turn when connecting the power. This multipurpose three phase rotation tester has an additional feature of checking motor rotation. The unit measures motor rotation by injecting a signal into the motor winding and when the armature is turned the direction will be indicated. In addition C5900 has a non-contact motor rotation facility for 50Hz three phase motors.

Features:
- CAT III 600V
- Compact light and easy to use
- Phase and motor rotation
- Non contact phase rotation indication
- Phase live indication

Feature	Range
Input Voltage	100 to 600V AC
Frequency	45 to 75Hz

Safety and Compliance
Conforms to IEC61010
CAT III 600V, CE.

Ordering Information:
Part No: **C5900**
The C5900 is supplied in a gift box with soft pouch, test leads, crocodile clips & instruction manual.
Batteries: 1 x 9V 6F22
Size: L124 xW61 xT27mm
Weight: ± 150g

For replacement test leads order AL30RYBKIT.

T860 Phase And Motor Rotation Tester

A multi-purpose three phase tester that has the additional feature of checking motor rotation. The unit checks motor rotation by injecting a signal via a push-button into the motor winding and when the armature is turned the phase rotation will be indicated. Ideal for determining which phase sequence when connecting a three phase motor to the supply and ensuring the correct rotation.

Features
- Dual phase and motor rotation
- Phase and open phase indication
- Plug-in leads
- CAT III 500V
- Easy to use
- Electronic circuits
- No mechanical parts

Feature	Range
Input Voltage	100 to 600V AC
Frequency Range	45 to 70 Hz
Power Consumption Motor Rotation	±14mA
Power Consumption Phase Rotation	±7mA

Compliance and Safety
EN61010 CAT III 500V

Ordering Information
Part No: **T860**
The unit comes in a gift box with soft vinyl case, crocodile clips on plug-in leads, and instruction manual.
Batteries: 1 x 9V 6F22 installed
Size: L153 x W72 x T35mm
Weight: 182g with batteries
For replacement test leads order AL30RYBKIT

T606 Phase Rotation Tester

A new design compact phase rotation tester with plug-in leads and electronic circuitry. This unit gives phase and sequence indication. The leads have large crocodile clips that easily clip onto most switchboards. It will identify 3 phases, their sequence and no phase. Used to test supply when installing motors, pumps, conveyor lines, drives, etc.

Features
- Compact and light, easy to use
- Plug-in leads
- CAT III 600V
- Electronic circuits
- No mechanical parts

Compliance and Safety
EN61010 CAT III 500V

Ordering Information
Part No: **T606**
The unit comes in a gift box with soft vinyl case, crocodile clips on plug-in leads, and instruction manual.
Batteries: None
Size: L102 x W78 x T32.5mm
Weight: 212g with test leads
For replacement test leads order AL30RYBKIT

Feature	Range
Input Voltage	100 to 600V AC
Frequency Range	45 to 70 Hz

CAT IV 600V

T855 - Phase Rotation Indicator With Fused Heads

HEAVY DUTY CROCODILE CLIPS

TEST PROBES
Fused for extra protection
Shrouded tips

CAT IV 600V

LONG LEAD WITH DOUBLE INSULATION
1m split & 1/2 meter cable
Ø4mm latch type probes, tips are protected with retractable shrouds

LIVE LINE INDICATION

PUSH BUTTON
For phase sequence testing

MOTOR INDICATIONS
Phase sequence - clockwise rotation correct

FEATURE	RANGE
Input Voltage	200 to 600V AC
Frequency Range	50 to 60Hz
Operating Temp.	-10 to 40°C @ 80% RH
Fuses	0, 5A x 3 HRC

COMPLIANCE AND SAFETY
EN61010 CAT IV 600V, CE

ORDERING INFORMATION
Part No: **T855**
The unit comes in a gift box with soft vinyl case, crocodile clips on built-in colour coded leads, and instruction manual.
Batteries: None
Size: L134 x W85 x T45mm
Weight: 530g with test leads

Phase Rotation Testers

C895 Phase Rotation Tester (non-contact)

The Phase Rotation Tester (non-contact) is the latest generation phase rotation detector featuring leads with non-contact crocodile clips and is rated CAT IV 600V.
The C895 is ideal for testing three phase sequence without a "live" connection. Simply dip the crocodile clip onto the conductors without removing the PVC insulation and the phase sequence and "live" lines are indicated.

Features
- Visual Display
- Audible indications for 3 phase detection
- CATIV 600V, CAT III 1000V
- Non Contact sensor clips
- Indications Phase Voltage 75V to 1000V AC
- AC frequency 45Hz to 65 Hz
- Auto Power Off – 5 min
- Test Lead Length 1.5m
- Bright LED for outdoor indication

Compliance and Safety
IEC61010-1 CATIII 1000V. EN 61326-1, C-tick

Test Range
75 to 1000V @ 45 to 65 Hz

Ordering Information
Part No: **C895**
Each phase rotation tester has built-in leads and is supplied in a gift box with operating instructions, soft carry bag and battery.
Batteries: 1 x 9 V 6F22
Dimensions: L128 × W72 × T44mm
Weight: + 220g

T6236B Tachometer

The T6236B is a compact tachometer that will measure rpm by optical detection of reflective tape or by mechanical contact. It is easy to use and measurements are clearly displayed on a LCD.

Features
- Contact OR optical
- Lightweight
- Easy to change from contact to optical
- 4 digit 99,999 Count LCD

Compliance and Safety
CE, EN50081, EN50082-1

Feature	Range
RPM	5 to 99,999
Velocity	0.05 to 19,999 m/min or 0.2 to 6560 Ft/min
Basic Accuracy	± 0.05% ± 1d
Max RPM Resolution	0.1 rpm

Accessories:
T6236B-RTAPE
Reflective Tape

Ordering Information
Part No: **T6236B**
The unit comes packed in a gift box with mechanical attachments and reflector tape.
Batteries: 4 x 1.5V AA
Size: L160 x W72 x T37mm
Weight: 225g

Low Resistance Ohm Meters (DLRO) & Tachometer

T4137 Milliohm Meter

A professional instrument capable of very low resistance readings. Ideal for resistance measurements of motor windings, busbars and any electrical connection.

Features

- IEC61010 CAT IV 20V
- Lightweight
- Heavy duty robust carry case
- Waterproof when case closed
- 4 terminal measurement
- Large display
- Overload protection
- Auto off / auto hold
- Max voltage output 20V
- Max resolution 100µW
- Microprocessor controlled

Compliance and Safety
CE, IEC61010-1

Resistance Range	Resistance Steps	Test Current	Accuracy
0-200 mΩ	100mΩ	100mA	1.0% ± 2d
0-2000 mΩ	1mΩ	100mA	0.8% ± 2d
0-20 Ω	10mΩ	10mA	0.7% ± 2d
0-200 Ω	100mΩ	10mA	0.7% ± 2d
0-2000 Ω	1Ω	1mA	0.7% ± 2d

Ordering Information
Part No: **T4137**
Each unit comes with leads in a carry case and a shoulder strap.

Power Supply
8 x 1.5V batteries

Size
Instrument:
L240 x W190 x T110mm
Lead carry bag:
L250 x W190 x T110mm

Weight
2.3kg

TMPK253 Digital Micro-Ohm Meter

A rugged 4-wire low resistance meter for test in the upper micro Ohm ranges with a one to ten Amp output.

Features

- 4½ Digit
- CAT II 600V
- Very Low Resistance
- 1 µΩ Resolution
- Heavy Duty Housing
- Rechargeable Battery
- Up To 10A Test Current
- 0.25% Basic Accuracy
- RS232 Interface
- IP54 Protection

Feature	Range
Resistance	0-2000µΩ & 20m @ 10A
	0-200mΩ @ 1A
	0-2Ω @ 100mA
	0-20Ω @ 10mA
	0-200Ω @ 1mA

TMPK253

Temperature - Thermometers

T111 Infra-Red Thermometer

A superb pistol grip infra-red thermometer that has an adjustable emissivity from 1 down to 0.1. This unit can be adjusted to measure the temperature of a stainless steel tank. This is an accurate thermometer with resolution of 0.5°C in manual range or 1°C in auto range.

Features

- 3 Digit 1999 Count LCD
- Back Light LCD
- Emissivity 0.1 to 1
- Celsius or Fahrenheit
- Auto Hold
- Min/Max
- Hi-Lo Beeper
- APO 10 seconds
- Laser Pointer

Compliance and Safety: CE

Feature	Range	Accuracy
Temperature	-30° to 550°C -22° to 1022°F	2% or ± 2°
Emissivity	0.1 to 1	
Field of View (D:S)	10:1	
Response Time	0.25 seconds	
Laser Power	<1mW, Class II	

Ordering Information
Part No: T111
The unit comes in a gift box with a battery and plastic pouch.
Batteries: Standard 9V
Size: L148 x W80 x T42mm
Weight: 145g

T3004 Thermometer / Humidity Meter

A compact dedicated environment meter that is accurate and feature packed. Typical applications are air conditioning in buildings, hothouses, refrigeration, storage rooms or any place where it is important to measure or record min/max, RH% and temperature.

Features

- Compact Size
- Fast Response
- Dual Display
- REL and HOLD Function
- Max/Min Recording
- Resolution: RH 0.1%, temperature 0.1°C/F

Feature	Range	Accuracy
Temperature	-20 to 60°C; -4 to 140° F	0.1°C or °F
Relative Humidity	1 to 99 %	0.1%
Operating Temp	0° to 40°C <80% RH	
Storage Temp	-10° to 60°C <70% RH	

Ordering Information
Part No: T3004
The unit comes in a gift box with operating manual.
Batteries: 9V
Size: L240 x W54 x T34mm
Weight: 220g

Mini Thermometer with Needle Point

CABAC's T6201 is a thermometer with a stainless steel needle surface probe. It has a digital read out of temperature from -50°C to +250°C.

- Measurement from -50 to +250°C
- Resolution 0.1 to 1°C
- Data Hold Function
- LCD Display

Ordering Information
Part No: T6201
The unit Supplied in pen style sleeve to hold in your pocket.
Batteries: 3V, CR 2032
Size: Approx. H40 x W30 x L160mm
Weight: Approx. 16g

Temperature - Thermometers

T308 Dual Thermometer

A feature packed dual channel thermometer in a compact case that is good value for money. It has features for professionals that will cover most of their everyday uses such as minimum and maximum recording and relative measurements. Suitable for applications where up to two thermocouples can be used for two readings in different locations, such as inside and outside a refrigerator.

Features

- Compact Size
- Dual Input and Display
- Auto Power Off
- Time Display
- Min/Max Recording
- Data Hold
- Relative Measurement
- Celsius or Fahrenheit
- Two Type-k thermocouples
- Resolution 0.1°C; 0.1°F

Compliance

CE

Feature	Range	Accuracy
Temperature +2°F	-200 to 1370°C; -326 to 2498°F	±0.3% +1°C ±0.3%
Input Protection	60V DC or 24 Vrms AC max	
Operating Temp	0.1°C to 40°C 80%RH	
Storage Temp	-10°C to 60°C 70%RH	

Ordering Information

Part No: **T308**

The unit comes with operating manual, two thermocouples type-k and battery.

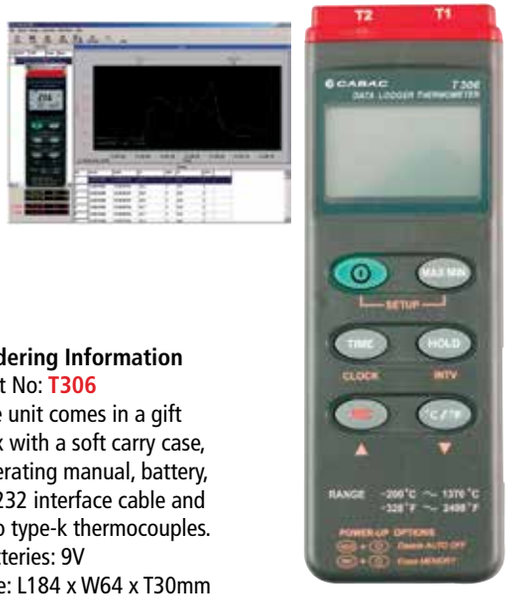
Batteries: 9V

Size: L164 x W54 x T34mm

Weight: 200g

T306 Dual Thermometer Logger

An easy to use dedicated, dual channel, type-k thermocouple temperature data logger. Easy to use with software designed with an easy operating panel for recording and downloading temperature measurements with real time stamping. The Windows based software uses a virtual panel that has full control of the instrument. Ideal for the professional who wishes to record temperature via two channels from -200° to 1370°C.



Features

- Dual Input
- 16000 Readings Recorded
- Triple Display
- Time Function
- Windows Based Software
- RS232 Interface
- Resolution 0.1°C or F

Feature	Range	Accuracy
Temperature	-200 to 1370°C; -328 to 2498°F	±0.3% +1°C; ±0.3% +2°F
Operating Temperature	0 to 50°C <80% RH	
Storage Temperature	-20 to 60°C <70% RH	

Ordering Information

Part No: **T306**

The unit comes in a gift box with a soft carry case, operating manual, battery, RS232 interface cable and two type-k thermocouples.

Batteries: 9V

Size: L184 x W64 x T30mm

Weight: 210g

Temperature Probes & Accessories

TCA Thermocouple to DMM Adaptor

A simple plug adaptor for thermocouple plugs and fits most multimeters.

- Socket Space: 19mm
- Shrouded Banana Plug
- Overall size: H61 x W34 x L13mm

TCA

TB01 Bead Type-K Thermocouple

Type-k thermocouple wire glass insulation.

- Length: 95cm
- Range: -40 to 400°C
- Accuracy: 1.5%

TB01

TP02 Immersion Probe Type-K

- Range: -50° to 700°C, -58° to 1292°F
- Tolerance: ± 2.2°C, ± 3.9°F

TP02

TP03 Flat Surface Probe Type-K

- Range: -50° to 400°C, -58° to 752°F
- Tolerance: ± 2.2°C, ± 3.9°F

TP03

TP04 Piercing Probe Type-K

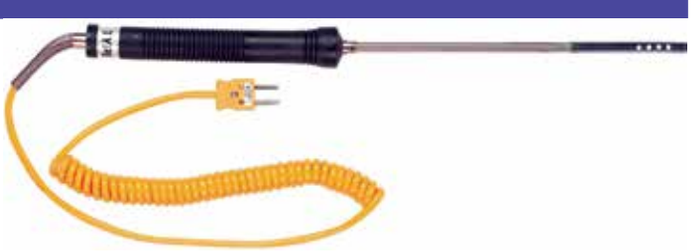
- Range: -50° to 800°C, -58° to 1472°F
- Tolerance: 2.2°C, ± 3.9°F

TP04

TP06 Air Probe Type-K

- Range: -50° to 800°C, -58° to 1472°F
- Tolerance: 2.2°C, ± 3.9°F

TP06



Lux, LCR & Distance

T630 Illuminance (Lux) Meter

The T630 is a dedicated, compact 3½ LCD digital light-meter. Illuminance is measured in Lux (Lumen per square meter) and is the amount of luminous flux (Lumen) per unit area at a point. The meter has a CIE photopic spectral response that evaluates the Lux closely to the capability of the human eye. The T630 has a detachable sensor head with a 1.5m cable and a sensor cover.

Features

- 3½ digit 1999 Count LCD
- Range from 0 to 200,000 Lux
- Low battery indication
- Update rate 2.5 x per second
- Resolution 0.01 Lux
- Spectral response CIE photopic
- Back light
- Max hold
- Data hold

Feature	Range
Lux Range	0 to 20, 200, 2000, 20 000, 200 000
Accuracy	±3% +10 dgt for CIE standard illuminant A (2856K) 23ºC ± 5º < 70% RH
Acceptance Angle	f'2 < 2% cosine corrected (150º)
Analogue Output	0.1mV/count
Battery Life	± 200 hours with standard carbon zinc batteries

Ordering Information
Part No. **T630**
The unit comes in a soft pouch, with batteries and instruction manual.
Batteries: 4 x 1.5V AA
Size: L170 x W44 x T40mm
Weight: 220g with batteries

T24 LCR Meter

The T24 LCR Meter is a hand held digital meter for measuring resistance to 20MΩ, capacitance to 1000µF and inductance to 200H.

Features

- 3¾ digit 1999 Count LCD
- Capacitance, Resistance & Inductance
- Low Battery Indication
- Update rate 2.5 x per second
- Diode Test
- Low Battery Indication

Compliance and Safety
CE, C√

Feature	Range	Accuracy
Resistance	20	± 1% + 10 dgt
	200	± 0.3% + 3 dgt
	2k, 20k, 200k, 2M	± 0.3% + 3 dgt
	20MΩ	± 2% + 2 dgt
Capacitance	200p, 2n, 20n, 200n	± 1% + 3 dgt
	2µ, 20µ, 200µ	± 2% + 3 dgt
	2000mF, ≤ 1000µF	± 3% + 3 dgt
	> 1000 µF	± 5% + 10 dgt
Inductance	200µ, 2m, 20m, 200mH	± 3% + 3 dgt
	2, 20, 200 Henry	± 5% + 10 dgt

Ordering Information
Part No: **T24**
The unit comes in a gift box with test leads, spare fuse, battery installed and operating manual.
Batteries: 9V 6F22
Size: L200 x W90 x T40mm
Weight: 400g
For replacement test leads order AL04.

C6450 Electronic Distance Estimator (Electronic Tape Measure)

The C6450 measures distance to a point using a sonic signal and can calculate area and volume. It has a laser pointer to assist in acquiring a test point. Feature a memory facility to record measurements for area and volume calculation. It uses a sonic signal to measure the distance to a target and requires a clear, unobstructed path for an accurate measurement.

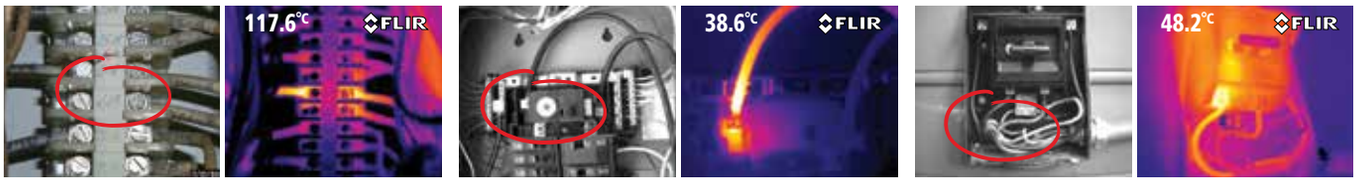
Features

- Multi function LCD
- Laser pointer to target item to measure
- Two and three pole Test Modes
- Measure metric or Imperial
- Accuracy ± 0.5% ± 1 digit
- Aperture angle ± 5°
- Maximum distance 15 m

Compliance and Safety
IEC61010-1 CATIII 300V. C-tick

Ordering Information
Part No: **C6450**
The C6450 is supplied in an oyster back with backing card including instructions.
Batteries: 1 x 9V 6F22
Dimensions: L136 × W59× H38mm
Weight: 150g

Thermal Imaging



Why FLIR is the world's first choice in IR cameras

FLIR Systems is the world leader in the design, manufacturing and marketing of thermal imaging systems for a wide variety of commercial, industrial and government applications.

Why would you choose a FLIR thermal imaging camera for your business?

There are other technologies available to help you measure temperatures in a non-contact mode. Infrared thermometers for example.

Infrared (IR) thermometers are reliable and very useful for single-spot temperature readings, but, for scanning large areas or components, it's easy to miss critical components that may be near failure and need repair.

A FLIR thermal imaging camera can scan entire motors, components, or panels at once - never missing any overheating hazards, no matter how small.

With an infrared thermometer you are able to measure the temperature at one single spot. FLIR thermal imaging cameras can measure temperatures on the entire image.

The FLIR i3 has an image resolution of 60 x 60 pixels. This means that it is equal to using 3,600 IR thermometers at the same time.

If we look at the FLIR E60 (which has an image resolution of 320 x 240 pixels, this means 76,800 pixels or using 76,800 infrared thermometers at the same time.

The IR Thermometer blindly scans for hot spots while FLIR cameras identify and see hot spots instantly.

The responsibility is on you to prevent Industrial fire! Failure to comply with your obligations may also mean that your insurance company is not bound to cover a claim.

Thermal Imaging

1. Perfect non contact measurement to ensure your work safety

2. The perfect tool for regular inspection, satisfying both fire prevention and maintenance efficiency

Test and tag is the procedure for the safety checking of electrical appliances. OH&S legislation has made all levels of management personally liable for the safety of employees. Prevention of workplace accidents also helps to keep insurance premiums down. Failure to comply with your obligations under OH&S legislation may also mean that your insurance company is not bound to cover a claim.

3. Perfect for carrying out inspection task without stopping production

4. Perfect for those out of reach and inaccessible or rotating objects

5. Perfect for identifying the Hot Spot in snapshot – prevention of blackouts, system failures, production downtimes etc

6. Perfect for creating reports for compliance or insurance claim reports

Want to be a Certified Thermographer?

Join more than 10,000 professional thermographers who have graduated from the world's largest ITC program.

The center offers a wide variety of infrared courses from entry - level thermography to advanced IR training. ITC infrared thermography certifications are globally recognized and are designed to exceed the requirements of international certification standards.

Visit www.infraredtraining.com for further information.

Thermal Imaging i-Series

The world's first choice in IR cameras

Optional accessories for FLIR i3/ i5/i7 series*:

1. T197717 FLIR Reporter 8.5 SP3, Professional
2. T910711 Power supply/ charger with EU, UK, US and AU plugs
3. T197410 Battery
4. T126024 Pouch
5. 1910423 USB cable Std A <-> Mini-B
6. T910737 Memory card micro-SD with adapters

*Available on order only.

The Infrared Revolution

FLIR Systems has revolutionized conventional thinking about temperature measurement by introducing the FLIR i-Series to suit all budgets!

FLIR i3/ i5/ i7 are the smallest, lightest and most affordable thermal imaging cameras on the market today.

They are incredibly easy to use and require no formal experience. It really is a matter of "point-shoot-detect" to obtain high-quality thermal images that will immediately give you the thermal information you need.

Outstanding ease-of-use
The camera is extremely easy to understand and operate, designed for entry-level users. The camera is intuitive and comes with a full manual.

Fully automatic
Produces instant, point-and-shoot JPEG thermal imagery that carries all required temperature data and can be stored internally or externally, sent and analyzed.

Focus free
The fixed focus free lens makes using the FLIR i3/ i5/ i7a snap.

Compact and lightweight
FLIR i5/i7 weighs only 340 g, and is easy to store in a belt pouch.

SD card storage
Stores images with unique ID in radiometric JPEG format, containing all temperature data on a standard miniSD card. USB file transfer to PC.

Reporting and analysis software included
FLIR QuickReport software is included and the camera is also compatible with the more powerful FLIR Reporter.

Outstanding measurement/ accuracy
High accuracy of ±2°C or ±2% produces sensitive thermal images for general purpose maintenance analysis. Measures temperatures up to +250°C and detects temperature differences as small as 0.10°C (depending on model).

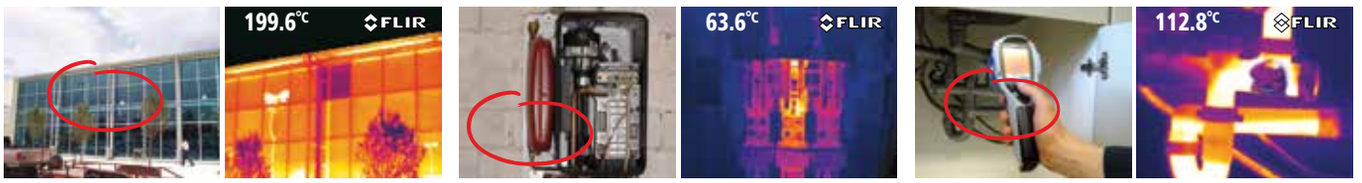
Measurement functions
Spotmeter, box with max./min. temperatures, isotherm above/ below (depending on model).

E Series Camera Pack

i Series Camera Pack

Thermal Imaging i-Series

The world's first choice in IR cameras



FLIR i3

- Thermal image quality: 60x60 (3,600 pixels)
- Thermal Sensitivity: <0.15°C @30°C
- Image Frequency: 9Hz
- Temperature range: -20°...+250°C
- Accuracy: ±2°C or ±2% of reading between 10°C to 35°C
- Measurement mode: Center Spot
- Field of View: 12.5° x 12.5°

★★☆☆☆ Image Resolution
★★☆☆☆ Measuring Range
★☆☆☆☆ Sensitivity
★★☆☆☆ Functionality
★★★★★ Easy to Use
★★☆☆☆ Overall Value

Ordering Information
Part No: **i3**
The camera is supplied in a hard transport case with battery installed, calibration certificate, FLIR Quick Report CD software, handstrap, mini SD card, power supply/charger, Getting started guide & user documentation CD ROM.
Camera size: 223x79x83mm
Weight: 0.34kg

FLIR i5

- Thermal image quality: 80x80 (6,400 pixels)
- Thermal Sensitivity: <0.10°C @30°C
- Image Frequency: 9Hz
- Temperature range: -20°...+250°C
- Accuracy: ±2°C or ±2% of reading between 10°C to 35°C
- Measurement mode: Center Spot
- Field of View: 17° x 17°

★★☆☆☆ Image Resolution
★★☆☆☆ Measuring Range
★★☆☆☆ Sensitivity
★★☆☆☆ Functionality
★★★★★ Easy to Use
★★☆☆☆ Overall Value

Ordering Information
Part No: **i5**
The camera is supplied in a hard transport case with battery installed, calibration certificate, FLIR Quick Report CD software, handstrap, mini SD card, power supply/charger, Getting started guide & user documentation CD ROM.
Camera size: 223x79x83mm
Weight: 0.34kg

FLIR i7

- Thermal image quality: 120x120 (14,400 pixels)
- Thermal Sensitivity: <0.10°C @30°C
- Image Frequency: 9Hz
- Temperature range: -20°...+250°C
- Accuracy: ±2°C or ±2% of reading between 10°C to 35°C
- Measurement mode: Area Max. / Min. Isotherm (above / below) or Centre Spot
- Field of View: 25° x 25°

★★☆☆☆ Image Resolution
★★☆☆☆ Measuring Range
★★☆☆☆ Sensitivity
★★★☆☆ Functionality
★★★★★ Easy to Use
★★★☆☆ Overall Value

Ordering Information
Part No: **i7**
The camera is supplied in a hard transport case with battery installed, calibration certificate, FLIR Quick Report CD software, handstrap, mini SD card, power supply/charger, Getting started guide & user documentation CD ROM.
Camera size: 223x79x83mm
Weight: 0.34kg

FLIR Protection

Register via. www.flir.com/thg and enjoy the piece of mind that comes with our **2-10 year** warranty promotion

Get Connected!

Connect to iPhone or iPad via Wi-Fi to use the FLIR ViewerApp for processing and sharing results.

Thermal Imaging e-Series

The world's first choice in IR cameras

Leadership has a class of its own

From FLIR comes a new generation of compact 'point & shoot' E-Series thermal imaging cameras designed to set new standards for excellence and value in ergonomic handheld imagers.

There are three models in the E-Series range packed with new features like Wi-Fi and Bluetooth® connectivity, Touch-Screen and iPhone App.

Take your pick of three pixel resolutions – all with 60Hz frame rate and a 3.0 Mb visual camera built in (except E30).

Wi Fi CERTIFIED

Available on the App Store

FLIR View App for your iPhone/iPad. Send images & data, share reports. Download it now!

Up to 320 x 240 pixels resolution
The FLIR E-Series infrared image resolution ranges from 160x120, 240x180 & 320x240 pixels depending on camera model. Every additional pixel means more valuable temperature information to isolate problem areas.

Thermal Fusion
Merges visual and infrared images to offer better analysis.

Picture-in-Picture
Blends thermal and visible light images onscreen and scale picture-in-picture overlays to identify targets and locations easily.

LCD screen
Large 3.5" LCD color screen.

Built-in LED lights
All FLIR E-Series (excluding E30) cameras have built-in LED lamps that ensures quality visual images regardless of job site lighting levels.

MeterLiNK™
FLIR MeterLiNK™ technology makes it possible to transfer, via Bluetooth®, the data acquired by an Extech meter into the infrared camera, saving time and eliminating the risk of erroneous records or notes.

Measurement range
Depending on the model the T-series can measure temperature between -20°C to +650°C.

Camera sensitivity
The thermal sensitivity in the FLIR E-Series ranges from 80mK to < 50 mK depending on model.

Instant reports
Create instant reports directly in camera, easily copy report to USB

[P-i-P]

Picture-in-Picture FLIR invented it

Create an infrared overlay on your visual image – moveable and scalable. Allows for easier identification and interpretation of infrared images. This advanced technology enhances the value of an infrared image by allowing you to overlay it directly over the corresponding visible image. This functionality combines the benefits of both the infrared image and visual picture at the push of a button.

Optional accessories for FLIR E30, E40, E50, E60*:

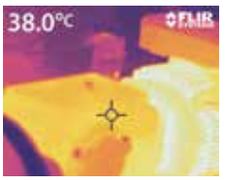
1. T197717 FLIR Reporter 8.5 SP3, Professional
2. 1196961 IR lens, f = 30 mm, 15° incl. case
3. 1196960 IR lens, f = 10 mm, 45° incl. case
4. T910814 Power supply, incl. multi plugs
5. T197752 Battery
6. 1196497 Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
7. T910737 Memory card micro-SD with adapters
8. 1910582 Video cable
9. 1910423 USB cable Std A <-> Mini-B
10. T197771 Bluetooth Headset
11. T197882 Battery Charger
12. T910973# MO297: Moisture meter, pinless with memory
13. T910972# EX845: Clamp meter + IR therm TRMS 1000A AC/DC

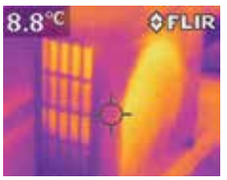
*Available on order only.

#Sold as a complete kit with E series cameras only.

Thermal Imaging e-Series

The world's first choice in IR cameras





FLIR E30

Thermal image quality: 160x120 (19,200 pixels)

Built in Laser Pointer

Thermal Sensitivity: <0.10°C @30°C

Image Frequency: 60Hz

Temperature range: -20°...+120°C, 0°+250°C

Accuracy: ±2°C or ±2% of reading between 10°C to 35°C

Measurement mode: 1 Spot & 1 Area box with Max. / Min./Average

Field of View: 25° x 19°

Optional lenses: IR lens f=30mm, 15° incl. case

IR lens f=10mm, 45° incl. case

★★★☆☆ Image Resolution
★★★☆☆ Measuring Range
★★★☆☆ Sensitivity
★★★★☆ Functionality
★★★★★ Easy to Use
★★★★☆ Overall Value

FLIR E40

Thermal image quality: 160x120 (19,200 pixels)

Built-in 3.1 Mpixels digital camera & LED Light

Built in Laser Pointer

Picture-in-Picture: IR Area on visual image

Thermal Sensitivity: <0.07°C @30°C

Image Frequency: 60Hz

Temperature range: -20°...+120°C, 0°+650°C

Accuracy: ±2°C or ±2% of reading between 10°C to 35°C

Measurement mode: 3 Spots & 3 Area boxes with Max. / Min./Average

Field of View: 25° x 19°

Optional lenses: IR lens f=30mm, 15° incl. case

IR lens f=10mm, 45° incl. case

WiFi Enabled to transfer image to iPad®/ iPhone®

★★★★☆ Image Resolution
★★★★★ Measuring Range
★★★★★ Sensitivity
★★★★★ Functionality
★★★★★ Easy to Use
★★★★★ Overall Value

FLIR E50

Thermal image quality: 240x180 (43,200 pixels)

Built-in 3.1 Mpixels digital camera & LED light

Built in Laser Pointer

Picture-in-Picture: Scalable IR Area on visual image

Thermal Sensitivity: <0.05°C @30°C

Image Frequency: 60Hz

Temperature range: -20°...+120°C, 0°+650°C

Accuracy: ±2°C or ±2% of reading between 10°C to 35°C

Measurement mode: 3 Spots & 3 Area boxes with Max. / Min./Average

Field of View: 25° x 19°

Optional lenses: IR lens f=30mm, 15° incl. case

IR lens f=10mm, 45° incl. case

WiFi Enabled to transfer image to iPad®/ iPhone®

★★★★★☆ Image Resolution
★★★★★ Measuring Range
★★★★★★ Sensitivity
★★★★★ Functionality
★★★★★ Easy to Use
★★★★★★ Overall Value

FLIR E60

Thermal image quality: 320x240 (76,800 pixels)

Built-in 3.1 Mpixels digital camera & LED light

Built in Laser Pointer

Picture-in-Picture: Scalable IR Area on visual image

Thermal Sensitivity: <0.05°C @30°C

Image Frequency: 60Hz

Temperature range: -20°...+120°C, 0°+650°C

Accuracy: ±2°C or ±2% of reading between 10°C to 35°C

Measurement mode: 3 Spot & 3 Area boxes with Max. / Min./Average

Field of View: 25° x 19°

Optional lenses: IR lens f=30mm, 15° incl. case

IR lens f=10mm, 45° incl. case

WiFi Enabled to transfer image to iPad®/ iPhone®

★★★★★★ Image Resolution
★★★★★ Measuring Range
★★★★★★ Sensitivity
★★★★★ Functionality
★★★★★ Easy to Use
★★★★★★ Overall Value

Ordering Information
Part No: **E30**
The camera is supplied in a hard transport case, calibration certificate, video cable, lens cap, FLIR Tools Software CD ROM, handstrap, memory card, power supply, battery, USB cable & user documentation CD ROM, warranty extension registration card.
Camera size: 246x97x184mm
Weight: 0.825kg

Ordering Information
Part No: **E40**
The camera is supplied in a hard transport case, calibration certificate, video cable, lens cap, FLIR Tools Software CD ROM, handstrap, memory card, power supply, battery, USB cable & user documentation CD ROM, warranty extension registration card.
Camera size: 246x97x184mm
Weight: 0.825kg

Ordering Information
Part No: **E50**
The camera is supplied in a hard transport case, calibration certificate, video cable, lens cap, FLIR Tools Software CD ROM, handstrap, memory card, power supply, battery, USB cable & user documentation CD ROM, warranty extension registration card.
Camera size: 246x97x184mm
Weight: 0.825kg

Ordering Information
Part No: **E60**
The camera is supplied in a hard transport case, calibration certificate, video cable, lens cap, FLIR Tools Software CD ROM, handstrap, memory card, power supply, battery, USB cable & user documentation CD ROM, warranty extension registration card.
Camera size: 246x97x184mm
Weight: 0.825kg

*E Series infrared cameras are "order only" items.

High Voltage Test Equipment

High Voltage Proximity Detector

The T275HP is a high voltage proximity detector. It has eight voltage detection settings from 240Vac to 275kVac.
The T275HP consists of an internal pick up sensor plate, a sensitivity selector, a visual and a sound annunciator.
With the T275HP, physical contact with electrical conductors is not necessary when testing for live lines.
This tester works by proximity.

Features

- Sealed by "0" rings
- 9AC voltage settings : 11, 23, 33, 66, 110, 132, 210 & 275kV
- High bright LEDs visual & sound indication
- Use 3 x 1.5V "C" batteries
- High impact nylon casing
- Non-contact work by proximity
- Compatible with most link sticks
- Suitable for indoor & outdoor applications
- Detect low voltage on any systems
- Easy access to batteries
- No special parts required

Compliance and Safety

EN61000-3-2 EN61000-3-3 EN61326-1
EN55011 EN61000-4-2 EN61000-4-3 EN61000-4-4
EN61000-4-5 EN61000-4-6 EN61000-4-11

Feature	Range
Voltage Range T275**HP**	240V/11/22/33/66/110/132/210/275kV
Voltage Range T275 **NHP**	3.3/6.6/11/22/33/66/110/220kV
Operating Temp	-15°C to +55°C
Humidity	93%RH @ 40°C

Ordering Information

Part No: **T275HP**
Part No: **T275NHP**
The unit comes in a gift box with a soft vinyl case with operating manual and batteries.
Batteries: 3 x 1.5V C type
Fuse: 15A/600V IR 100kA
Size: L260 x Ω97.5mm
Weight: 775g including batteries

RITZ CT Range of Contact AC Voltage Testers

A range of four testers available on order for touch testing live lines from 70V to 36kV. They are attached to the end of a "Hot Stick" with the "sun dial" type connection. It features a self-test, a loud audible alarm and clear visual LED indication. These units are easy to use, safe and reliable voltage indicators.

Features

- Touch Test
- Loud Audible Alarm
- Clear Visual LED Indication
- Test Switch
- Low Battery Indicator
- Working Frequency 50/60 Hz
- Packed in a Rugged Reinforced Plastic Carry Case
- Battery: 9V 6F22
- Dimensions: 60 x 180mm
- Weight: 290g

Compliance and Safety

IEC61243-1 FRO CT2-6, CT5-15 and CT12-36

Catalogue No.	Range
CT5-15	5kV to 15kV
CT12-36	12kV to 36kV

Phase Tester up to 16kV / H1876-4/B Extensions for Conversion to 48kV

A portable kilo-voltmeter from RITZ suitable for measurements up to 48kV.
The test instrument is used to check voltages between phases, phase to earth and same phase for connection purposes. The test instrument attaches to electrical "Hot Sticks" to enable testing at the required approach distance or to reach an overhead line.

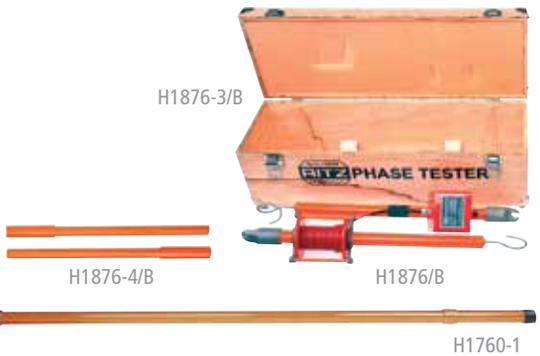
Features

- Sundial Connection to "Hot Sticks"
- Clear Analogue Display
- Extendible Cable Link 16kV Protected
- Convenient Carry Box
- Includes Two Universal Sticks (H1760-1)
- Reel Cable Length of 6.5m

Feature	Range
Basic Voltage Range for H1876/B	1kV to 16kV
48 kV with Extension Resistors	16kV to 48kV (multiply reading x 3)

Ordering Information

Part No:
H1876/B Phase tester up to 16kV
H1876-4/B Resistor extension pair for measurements up to 48kV
H1760-1 Universal sticks 1800mm long x Ω 32mm
The units are supplied individually.
Batteries: None
Weight: 8kg (phase tester, with 48kV extension and wooden case)
For more information refer to Section V (RITZ) in this catalogue or contact CABAC Sales Representative on 133 122.



CABAC LPG & Natural Gas Detectors

LPG & Natural Gas Detectors

The gas detector will sound an alarm, after a period of 30 seconds, if a presence of LPG or natural gas reaches and stays at 10%. There are three versions of gas detectors available, one for LPG supplied by 12 V supply and two for 240V supply, each of which can detect LPG or natural gas. The unit can be compared to a smoke detector, but detects flammable gas and is installed in a similar way.
The LPG detector is installed 300mm above the floor and natural gas detector is installed 300mm below the ceiling. See the manual for further reference.

Features:

- Safety device to detect flammable gas.
- Detects leaks from a gas appliance e.g. stove, water heater.
- Installed in a fixed in position near a point of risk as per gas type.
- 230 V mains supply for building and 12 V for caravans, leisure marine, etc.
- Supplied with a 230 V plug for DIY installation.
- Can be hard wired by a licensed electrician
- Extra NC/NO contacts available for external control.

GK401	Gas Detector Natural Gas 230V AC Supply
GK601	Gas Detector LPG 230V AC Supply
GK601-12V	Gas Detector LPG for 12V DC Supply

The CABAC Gas Detectors are a range of units to be installed in domestic, commercial or even industrial areas where LPG or natural gas appliances and outlets are installed. The objective is to warn of a dangerous presence of flammable gas before an explosion can occur or someone is injured or dies of asphyxiation.
Gas related accidents occur on a regular basis and there is potential for a gas detector to become a standard household and work place item.
Gas is a greener energy source than other fossil fuels and its use can be expected to grow especially as electricity is due for a major price increase.

MultiPro Gas Detector - Four Gas Confined Space Monitor

The MultiPro, is a versatile multi-gas monitor capable of detecting O2, CO, H2S and combustible gases for a wide variety of hazardous and confined space applications.

The MultiPro is housed in a rugged, impact-resistant case to provide superior performance and durability in harsh environments and resistance to radio frequency and electromagnetic interference. Its four button interface provides simple, intuitive operation and calibration.

The unit's compact size and economical price make it an ideal personal monitoring instrument. Other standard features include a vibrating alarm, lithium-ion battery, peak/hold readings, large LCD and belt clip.

93-NYD8

Test Leads & Accessories

PVC Insulated Test Lead and Crocodile Clips

Set of red and black PVC insulated test leads with right angled banana plugs, and threaded test 2mm pins for crocodile clips. Rated 600V, 5A. Length: 840mm.

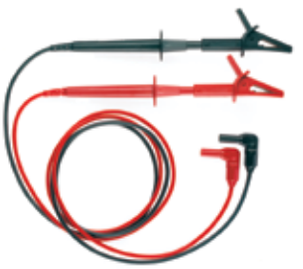
AL24

AL24

Double Silicone Insulated Test Leads & Crocodile Clips

Set of double silicon insulated test leads with right angled banana plugs with shrouded 4mm male banana plug test points. AL38C fits onto this probe. Length: 1000mm

AL35L Shrouded Test Lead
AL38C Red and Back Crocodile Clips, 35.5mm Spring Tension Mouth



AL35L

Stacking Leads

Silicon insulated stacking leads with shrouded straight banana plugs. Length: 500mm

AL37R Red Stacking Lead
AL37B Black Stacking Lead
AL37G Green Stacking Lead

AL37R

Silicone 2mm Insulated Test Lead

Double silicone insulated red and black test leads with fused probes. Takes 6mm x 25mm fuses. Rated 600V
Length: 1000mm

AL32F

Fuses for fused leads

TF0.5 0.5 A 500V 50kA x 2 per pack
TF10 10 A 500V 50kA x 2 per pack

AL32F

High Voltage Insulation Tester Test Probes

Large test probe with shrouded 4mm banana plug tip, super insulated silicon wire. Only to be used for insulation testers. Rated 10kV 3W output or 1000V input. Length: 2700mm

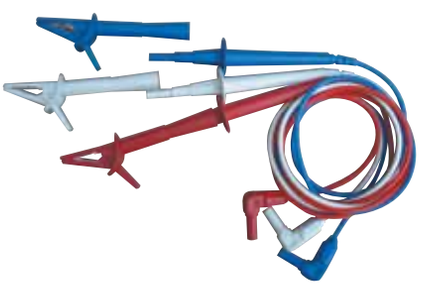
AL53

AL53

Phase Coloured Lead Set

Set of double insulated silicone insulated test leads with right angled banana plugs and shrouded 4mm banana plug probes in colours red, white and blue. Length: 1000mm.
The kit includes three large crocodile clips.

AL30RWBKIT



AL30RWBKIT

Test Leads & Accessories

Leads Set for Active, Neutral and Earth

Set of double insulated silicon insulated test leads with right angled banana plugs and shrouded 4mm banana plug probes in colours red, black and green. Length: 1000mm. The kit includes three crocodiles clips

AL30RBGKIT

AL30RBGKIT

Aust. Plug to 3 Core Banana Plug Adaptor

Three core cable with Australian 10A three pin power plug and three straight banana plugs colour coded red, black and green. Ideal for quick connection to a GPO. Length: 1000mm.

TEL-EL

TEL-EL

Moulded UL94-0 PVC with Probes and Plugs

IEC61010 CAT IV 1000V 10A. Moulded UL94-0 PVC red and black with grey probes and plugs.

AL28-1 Leads set with probe tip ø 2mm

AL28-1

Moulded UL94-0 PVC with Probes and Plugs

IEC61010 CAT IV 1000V 10A. Moulded UL94-0 PVC red and black with grey probes and plugs.

AL28-3 Leads set with probe tip 4mm dia banana plugs.

AL28-3

Moulded UL94-0 PVC with Probes and Plugs

IEC61010 CAT IV 1000V 10A. Moulded UL94-0 PVC red and black with grey probes and plugs.

AL28-5 Leads set with probe tip 2mm dia threaded. With crocodile clips.

AL28-5

PVC Insulated Test Leads CAT IV 1000V

Brymen right angled banana plug test lead 3mm test pin for CAT IV 1000V.

- Length: 900 mm

AL04

AL04

Long Black Lead For BT66 & BT69

Single Brymen straight banana plug black test lead .

- Length: 3 m

AL01

AL01

Test Leads & Accessories

AL-4WER Test Leads Set

For Earth resistance testers. Set of test leads and four earth spikes in a soft material bag.

Length:	Black Wire:	3m
	Blue Wire:	20m
	Green Wire:	50m
	Red Wire:	36m
	Spike:	45cm

AL-4WER

PD20 High Voltage Probe for use with a Digital Multimeter

This high voltage probe is designed for indoor use with a digital multimeter. Safety rating for CAT III Pollution Degree 2. It comes with a grounding clip and it is intended for use with low energy circuits such as HV fences and TV sets.

Feature	Range	Accuracy
Input Impedance	500 Mohms	
Attenuation Ratio	1000:1	
Accuracy	DCV (0-20kV) DCV (20kV – 30kV) ACV (0-20kV)	1% 2% Typically 5% at 60Hz
Max Working Voltage	30kV DC or 20kV AC	
Cable Length	1m	

Ordering Information
Part No: **PD20**
The unit comes in a box with instruction manual.
Batteries: none
Weight: 508g

Meter Carry Pouches with CABAC logo

CPOUCH-1
A soft meter pouch for one DMM.
CPOUCH-2
A soft pouch for two DMMs or a DMM and clamp meter or a DMM and temperature meter or logger or a T1800 or T1851 style insulation tester.

CPOUCH-2

CPOUCH-1

T27RBC Series Rubber Boot and Pouch Set

T27RBC T27 Series Rubber Boot and Pouch Set
Set comprises:
- Push button guard
- Rubber holster
- Shoulder strap
- Nylon pouch

Meter Kit Cases & Waterproof Cases

PR-CASE

Components: BM805 DMM, C2001C 1000A AC clamp, T2732 insulation tester, T2708 Voltfinger with magnetic detection and WICKIT1 case.

PR-CASE - Basic Electricians Meter Kit

TESTKIT1

Components: T7114 Volt Finger, BM821 DMM, TBM116 Clamp, T2732 Ins. Tester & WICKIT1 Case

TESTKIT1 - Standard Meter Kit

TESTKIT2

Components: T7107A Volt Finger, BM822 DMM, TBM118 Clamp, T2732 Ins. Tester & WICKIT1 Case

TESTKIT2 - Standard Meter Kit True RMS DMM & Clamp

TESTKIT3

Components: BM525 DMM Logger, BU-86X USB Cable, T202 Clamp Adaptor & WICKIT1 Case

TESTKIT3 - Complete Data Logging DMM with Current Clamp Adaptor

TESTKIT4

Components: TBM685 DMM, TBM116 1000A AC clamp, T606 Phase Rotation Tester, T5010A Cable Locator, TEL1TL Socket Tester & WICKIT3 Case

TESTKIT4 - General Meter Kit

TESTKIT5

Components: TBM865 DMM, C2001C 1000A AC clamp, T2732 Insulation Tester, TR-PCB Resistor PCB, T606 phase rotation tester, T2712EL RCD Tester, T2726 Loop Impedance Tester, TEL1TL Socket Tester and WICKIT3 large case

TESTKIT5 - Full House Meter Kit

METERKITCATIV

Components: BM822 DMM True RMS, T9005 600A AC/DC Clamp, BT69 LCD Voltage Tester, T7107A Voltage Detector CATIV 1000V, T855 Phase Rotation Tester - Fused & WICKIT3 Case. All items rated CATIV 600 or 1000.

METERKITCATIV - Meter components compliant to AS/NZS61010 CAT IV

TESTKITA

TESTKITA

Components: T7107A NCV detector, TEL1TL socket tester, BM251 DMM, BM111M 600A AC clamp, EP220 electrical pliers, HVSDK5 screw driver set, HVSC200B long nose pliers, KUS4 wire stripper, KUS800 electrical knife, KLP250 Locking Pliers, KAP250 Adjustable Pliers, KAW200 Adjustable Wrench, KT7.5 measuring tape and WICKIT2 case

TESTKITA - Electricians Tool Set with Basic Test Equipment

Waterproof Cases

- Airtight, waterproof, crushproof & dustrpoof
- High impact thermoplastic moulded
- Heavy duty use
- Suitable for use as a brief case or tool box
- Available with serrated foam filled or foam & tool pouches

WIC465 Waterproof Instrument Case (empty) - 465x360x170mm
WIC575 Waterproof Instrument Case (empty) - 575x420x210mm

WICKIT1 Waterproof Instrument Case - 465x360x170mm
Complete with Serrated Foam Filled Insert

WICKIT2 Waterproof Instrument Case - 465x360x170mm
Complete with Serrated Foam Filled Insert & Tool Pouch Insert

WICKIT3 Waterproof Instrument Case - 575x420x210mm
Complete with Serrated Foam Filled Insert

WICF465 Waterproof Case Foam Insert 465mm

WICF575 Waterproof Case Foam Insert 575mm

WICTOI Tool Pouch Insert

WICKIT2

Triple R Service & Calibration Policy

Triple R Service & Calibration Policy

CABAC
Repair → Replace → Return

On accepting an instrument to be repaired the following procedure is to take place.

1st R REPAIR

1. Provide a quote for labour and parts to repair the instrument to manufacturers specifications.
2. Repair the instrument after receiving written acceptance of the quotation (a purchase order from the referring wholesale branch is sufficient).
3. The work shall be warranted for a maximum of 3 months.

2nd R REPLACE

If the customer elects not to have the instrument repaired then they have the choice to accept as close an equivalent as possible an instrument we supply at a price suggested by the referring wholesaler or pay the minimum quotation fee for the time taken to diagnose the problem.

Please note:

* The quotation of repair and replacement parts is subject to availability from the supplier especially in the case of meteres not sold by Cabac.
* The quotation fee will be waived if the customer purchases one of our suggested replacement meters.

3rd R RETURN

If the customer elects to pay the quotation fee we will return the instrument to the referring wholesale branch.

Please note:

* The quotation fee will be charged to the refering wholesaler for unclaimed goods left fo more than 3 months.

CABAC Offers A Calibration Service For Instruments

The Calibration can either be Factory Standard calibration or NATA accredited calibration. Please note part numbers for calibration of Multimeters, Clamp meters, Installation testers, Multi-function and appliance testers. An installation tester is defined as an instrument that conducts RCD, LOOP or Insulation testing. Multifunction testers which encompass all these testers in the one unit will attract a higher calibration price due to the extra time taken to check all functions.

Part Number	Description
CALSTANMM	Factory Calibration Multimeter
CALSTANMF	Factory Calibration Multifunction testers
CALSTANCLAMP	Factory Calibration Clamp
CALSTANAPP	Factory Calibration Appliance testers
CALSTANINS	Factory Calibration Insulation testers

Part Number	Description
CALNATAMM	NATA Calibration Multimeter
CALNATAIMF	NATA Calibration Multifunction testers
CALNATACLAMP	NATA Calibration Clamp
CALNATAAPP	NATA Calibration Appliance testers
CALNATAINS	NATA Calibration Installation testers

CABAC Test Equipment

Ideal for professional use in industrial, electrical applications, field environments, laboratory or workshop applications there's a model to suit every need.

CABAC test equipment use the latest microprocessor technology to provide comprehensive measuring ranges and features in hand held instruments. There is a wide range of test and measurement equipment to suit all applications and budgets.

All products conform to International Standard requirements, and all carry a long list of exclusive features.

Some models have "Lifetime of Product Warranty" as standard, and all are backed by the CABAC name for quality.

Whether you are buying a general purpose unit, that has advanced features such as auto ranging, data hold, auto power off, reinforced case for durability, etc. or a professional range unit which offers additional features and accessories, the CABAC range of test equipment will suit your work requirements and provide you with many years of reliable service.

Some models have "Lifetime of Product Warranty"

Some models have "Extended 2 Years Warranty"

*Refer to CABAC website cabac.com.au for terms and conditions on warranty.

CABAC
One Call → One Day → One Delivery

Certificate of Quality

CABAC
Test Equipment

CABAC confirms herein that the unit you have purchased has been calibrated, during the manufacturing process, in compliance with the test procedures defined by CABAC and the manufacturer.

All CABAC procedures are monitored on a permanent basis in compliance with ISO 9000 Quality Management Standards.

In addition CABAC confirms that all test equipment and instruments used during the calibration process are subject to constant control. All test equipment and instruments used are calibrated at determined intervals, using reference equipment, which has been calibrated in compliance with (and traceable to) the calibration standards of international laboratories and the country of manufacturer's national standards.

The factory settings are valid for a period of one year from the date of purchase from your reseller.

CABAC test and measurement equipment complies with Australian EMC regulatory and international requirements.

CABAC
Repair → Replace → Return

Section i.a

Power-Mate™

Power-Mate™ Series

NEW

The POWER-MATE™ comes in a wide range of models to suit your energy measuring needs, from home use to businesses and industrial.

IS THERE A BETTER METER IN THE WORLD - WE DON'T THINK SO!

Reduce your energy and carbon footprint with the exceptionally accurate portable POWER-MATE™ energy use meter.

Receive immediate, accurate feedback to identify energy wasting appliances and put strategies in place that will reduce your energy consumption without having to wait until the next, costly, electricity bill comes in.

Identify which appliances need protection from dangerous power surges, as it can display the maximum and minimum voltages recorded whilst in use.

You can then instantly view those results to tell you what the appliance costs you to run per hour, quarter or year.

No need to program the POWER-MATE™ every time you use it. For your convenience the settings and readings are stored internally when turned off. No batteries required.

Use your computer and our POWER-MATE™ software to log power use on the computer for further analysis. Available on model PM10AHDS only.

POWER-MATE™

Develop power saving strategies to change people's behaviour in your home, business and/or industrial premises.

MEASURES

- kWh
- Dollars
- Greenhouse gas emissions (kg CO2)

EASY TO USE

- Set your kilowatt-hour rate (will be stated on your last power bill)
- Plug into power outlet
- Plug in appliance to be measured
- Measure/Analyse/Record

ADVANTAGES

- Accurately determine running cost of individual appliances
- Identify faulty products that are using more power than they should
- Identify the big consumers of power
- Identify and reduce standby power costs

POWER-MATE™ POUCH

PM10P

A convenient cover for your POWER-MATE™. Suitable for all models.

Power-Mate™ Series

PM10A POWER-MATE™ - Small Office & Business

Designed for the energy use professional, energy auditors, contractors and installers.

PM10A - Small Offices & Businesses

PM10A POWER-MATE™ - Heavy Duty - Offices & Businesses

In addition to the POWER-MATE™ features, the Heavy Duty model can measure short term currents of up to 15A, allowing you to view inrush currents found in items such as pool pumps and electrical motors.

PM10AHD- Small Offices & Businesses

MEASURES SHORT TERM CURRENTS OF UP TO 15A

PM10AHDS POWER-MATE™ Serial - Offices and Businesses

With all of the features of a POWER-MATE™ Heavy Duty, the serial model has a built in serial (RS-232) output. With the use of a computer, a serial (RS-232) to USB converter and the POWER-MATE™ software, you can log power use on your computer for further analysis. Saving it as a CSV file, suitable for excel spreadsheets, you can do further analysis of the data

PM10AHDS - Small Offices & Businesses

HAS A BUILT IN SERIAL (RS-232) OUTPUT

PM15A POWER-MATE™ 15A model - Offices, Businesses and Industrial Premises

In addition to the POWER-MATE™ features, accurately measures sustained energy use in 15A applications. E.g ovens, water pumps, air conditioners, computer server rooms and electrical motors where the current is up to 15A constantly.

It also measures inrush currents of electrical items like electrical motors & water pumps where the momentary inrush current can exceed 15A instantaneously.

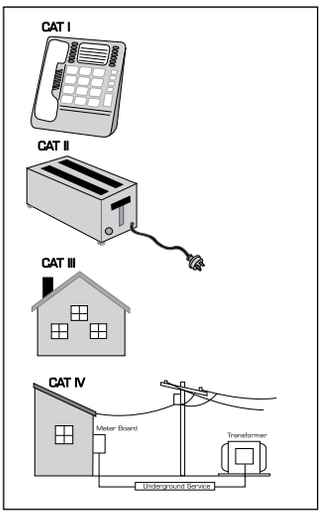
PM15A - Small Offices & Businesses

15A MODEL

Notes on Test and Measurement

Handy Info (IEC61010-1 2nd Edition 2001-02)

Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements.
Explanation of categories listed in clause 6.7.4



1. **CAT I**

This covers measurements performed on circuits not connected directly to the mains. Surges in an electronic device e.g. a PCB inside a photocopier, may have some electronic ripple.

2. **CAT II**

For measurements on circuits connected directly to the low voltage installation e.g an appliance. Appliances such as power tools or household appliances and the electrical cord may have low surges from a motor for example.

3. **CAT III**

Is for measurements of the circuit in a building installation i.e. plugs and sockets, distribution boards, lighting circuits, underground cable, boreholes connected by underground cable, etc dissipated lightning surges.

4. **CAT IV**

For measurements at the source of an electrical installation. This covers outside supply lines, overhead lines and the main board connected to overhead lines. These electrical circuits are exposed to substantial surges such as lightning.

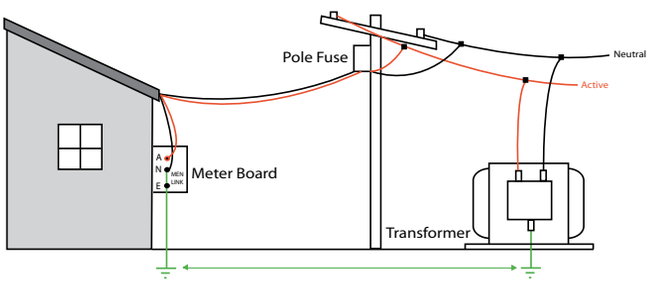
The table on the right indicates the applied voltages of an impulse generator. The generator shall produce an open circuit voltage waveform of 1,2/50ms as listed below. Refer to clause 14.9 in the table.

Impulse Withstand Voltages for the IEC61010 Categories			
Nominal Voltages	Voltage Transients		
Phase to Neutral Voltage*	Transient stresses estimated within the installation without any over-voltage limiting devices		
	CATII	CATIII	CATIV
50	500	800	1500
100	800	1500	2500
150	1500	2500	4000
300	2500	4000	6000
600	4000	6000	8000
1000	6000	8000	12000
Output Impedance of Impulse Generator	12Ω	2Ω	2Ω

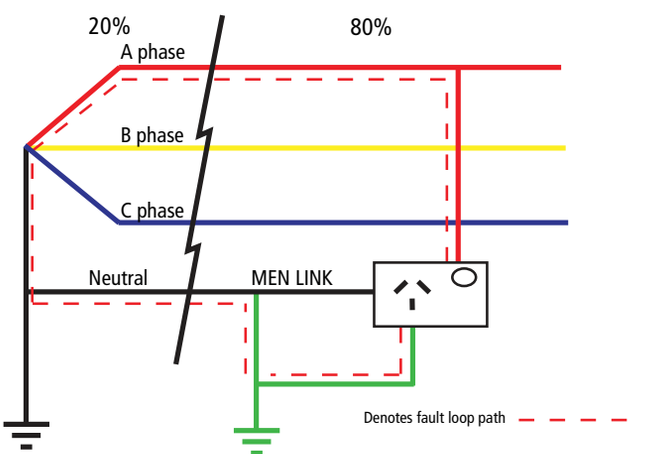
Notes on Loop Impedance

Loop Impedance is the sum of impedances in a circuit measured from an outlet point to the supply transformer via active or neutral or earth and the respective return in the loop. PSC is the prospective short circuit current that the loop will carry due to the resistance and applied voltage.

The T2726 Loop Impendance Tester on Pg H39 will display in scrolling order, the line voltage, the sum of and individual impedances and the prospective short circuit current (PSC) in loops Active/Neutral and Active/Earth. The instrument calculates the PSC using the recorded voltages and measured impedances. To obtain accurate milliohm values the instrument uses a high test current, which will trip the RCD. The RCD should be by-passed and the load on the circuit minimized before the test is done. Instruments that do not trip the RCD use test currents below 20mA and are not as accurate as when using a higher current test. Determining the PSC is useful to determine the maximum load protection on a circuit e.g. a class C circuit breaker needs to trip at 7.5 times its rated current and the circuit must be able to carry it.



Drawing 1 – Physical Layout of Supply Loops



Drawing 2 – Earth Fault Loop